

10	86.7	14	16	AAQ92762	c-erbB-2 antisense
11	86.7	16	19	AAV48736	erbB-2 gene antisense
12	86.7	19	21	AAAI3776	Forward primer for
13	86.7	19	22	AAD15845	Human HER-2 ECD co
13	86.7	19	24	ADD32531	HER-2 extracellular
14	86.7	19	20	AAV84090	PCR primer MTL(P)
15	86.7	20	22	AAAS00677	Human consensus seq
15	86.7	20	22	AAAF161607	Maize metallothionein
17	86.7	20	21	AAAT74062	Reverse PCR primer
18	82.7	20	21	AAV08115	Primer Vbeta5 for
19	82.7	22	20	ABNB3663	Gamma-glutamylcyst
20	82.7	24	24	AAZ01091	Probe for human PG
21	82.7	47	20	AAV77430	Human silent SNP C
22	82.7	50	22	AAI175567	Human silent SNP C
23	82.7	51	22	AAI174426	Human silent SNP C
24	82.7	51	22	AAI174427	Human silent SNP C
25	82.7	51	22	AAV77428	Human silent SNP C
26	82.7	51	24	ABN33270	Human spliced tran
27	82.7	60	24	ABN33270	Mouse spliced tran
28	82.7	65	24	ABN54380	Human spliced tran
29	82.7	98	24	ABN50554	Human cancer relat
30	80.0	22	19	AAV31078	Oligonucleotide 6
31	80.0	22	19	AAV36673	Nucleotide sequenc
32	80.0	53	19	AAV36662	Nucleotide sequenc
33	80.0	60	24	ABN48619	Human spliced tran
33	80.0	60	62	AAV36663	Nucleotide sequenc
34	80.0	65	24	ABN54104	Mouse spliced tran
35	80.0	65	24	ABN54738	Mouse spliced tran
36	80.0	65	19	AAV17076	Oligonucleotide 4
37	80.0	97	19	ADD12361	Human LSG 414885 e
38	78.7	19	24	ABL55452	Human ICAM-1 antis
39	78.7	20	21	AAA12081	Human chromosome 2
39	78.7	20	24	ABL45607	Mouse EphA4 gene P
40	78.7	22	21	AAA12945	Thrombopoietin rel
41	78.7	22	21	ABK12010	HCV-1 E2 forward
42	78.7	28	21	AAA52982	Haplotype sperm cell
43	78.7	32	21	ABL55452	Human ICAM-1 DNA f
44	78.7	32	24	AAA12095	
45	78.7	42	21	AAA12095	

ALIGNMENT S

RESULT 1
 AAZ90403
 ID AAZ90403 standard; DNA; 15 BP.
 XX
 XX
 AC AAZ90403;
 XX
 XX
 DT 30-MAY-2000 (first entry)
 XX
 DE Phosphorothioated ASO directed against HER-2 gene.
 XX
 KW Radiation; drug resistance; HER-2; raf-1; radioresistant; tumour;
 KW cancer; restenosis; osteoarthritis; neurological; pre-eclampsia;
 KW

No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

卷之三

Result	No.	Query			DB	ID	Description
		Score	Match	Length			
	1	15	100.0	15	21	AAZ90403	Phosphorothioic
	2	15	100.0	19	22	AAF9894	Immunostimulatory
	3	15	100.0	19	24	ABL38703	Breast cancer
C	4	15	100.0	24	14	AAQ52043	Promoter region
C	5	15	100.0	70	20	AAV80767	US-1 antisense
	6	14	93.3	15	19	AAV40434	Human silent S
	7	14	93.3	51	22	AAI75566	PCR primer HN4
	8	13.4	89.3	24	19	AAV22885	PCR primer HN4
C	9	13.4	89.3	28	20	AAV22886	PCR primer HN4
	10	13.4	89.3	24	19	AAV22887	PCR primer HN4

16-DEC-1997; 97US-0991830.
30-DEC-1996; 96US-0034160.
(CHAN/)- CHANG E H.

PT antisense nucleic acid for treating or diagnosing cancer, restenosis, osteoarthritis, neurological and intestinal abnormalities and pre-eclampsia -

PT Claim 4; Column 9; 18pp; English.

CC The invention provides a method for reducing radiation or drug resistance of a cell, *in vitro*, which does not overexpress HER-2 or raf-1 genes. The method comprises introducing to the cell an antisense nucleic acid comprising a segment complementary to HER-2 or raf-1. The method is useful for increasing drug and radiation sensitivity in a cell, particularly in the treatment of radioresistant tumours. The antisense nucleic acids are useful for treating or diagnosing cancer, restenosis, osteoarthritis, neurological and intestinal abnormalities and pre-eclampsia. The present sequence represents a phosphorothioated antisense oligo (ASO) directed against HER-2 gene.

XX Sequence 15 BP; 2 A; 5 C; 3 G; 5 T; 0 other;

XX SQ Query Match 100.0%; Score 15; DB 21; Length 15;

XX Best Local Similarity 100.0%; Pred. No. 72;

XX Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 100.0%; Score 15; DB 21; Length 15;

Best Local Similarity 100.0%; Pred. No. 72;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 100.0%; Score 15; DB 21; Length 15;

Best Local Similarity 100.0%; Pred. No. 72;

Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 2

AAF88894

ID AAF88894 standard; DNA; 19 BP.

XX DE Immunostimulatory nucleic acid #10.

XX AC AAF88894;

XX DT 12-JUN-2001 (first entry)

XX DE Immunostimulatory nucleic acid #10.

XX AC AAF88894;

XX DT 12-JUN-2001 (first entry)

XX DE Immunostimulatory nucleic acid #10.

XX AC AAF88894;

XX DT 12-JUN-2001 (first entry)

XX DE Immunostimulatory nucleic acid #10.

XX AC AAF88894;

XX DT 12-JUN-2001 (first entry)

XX DE Immunostimulatory nucleic acid #10.

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XX DT 12-JUN-2001 (first entry)

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XX AC AAF88894;

XX DT 12-JUN-2001 (first entry)

XX DE Immunostimulatory nucleic acid #10.

XX AC AAF88894;

XX DT 12-JUN-2001 (first entry)

XX DE Immunostimulatory nucleic acid #10.

XX AC AAF88894;

XX DT 12-JUN-2001 (first entry)

cancer, stomach cancer, testicular cancer, and uterine cancer. The present sequence is an immunostimulatory oligonucleotide described in the exemplification of the invention.

phenotype. These target sequences are identified by the ribozyme of the invention. The ribozymes is formed in a hammerhead motif, but may also be formed in the motif of a hairpin, hepatitis delta virus, group I intron or RNaseP-like RNA. These ribozymes may be used to inhibit the development or expression of a transformed phenotype in man and other animals by modulating expression of the corresponding gene. Cleavage of target mRNAs expressed in pre-neoplastic and transformed cells elicits inhibition of the transformed state. Multiple drug resistance (mdr-1) mRNA specific ribozymes remove the mechanism of drug resistance used by transformed cells and thus enhances drug therapies for tumours. The ribozymes may also be used to study genetic drift and mutations within cells.

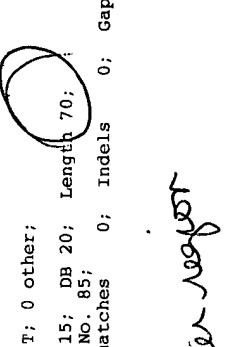
Draper KG, Thompson JD;
WPI; 1993-386203/48.

New enzymatic RNA molecules (ribozymes) - which cleave mRNA associated with tumours or mRNA expressed from gene encoding multiple drug resistance

Claim 3; Fig 8; 69pp; English.

The sequences given in AAQ1825-2266 represent areas of mRNAs which are associated with development or maintenance of chronic myelogenous leukemia (CML), promyelocytic leukemia, Burkitt's lymphoma, or acute lymphocytic leukemia, follicular lymphoma, B-cell acute lymphocytic leukemia, breast cancer, colon carcinoma, neuroblastoma and lung cancer. The full length mRNAs containing these target sequences, encode aberrant cellular proteins which are able to control cellular proliferation and are directly linked to a leukemic

CC undergoes genetic alterations along with c-myc gene and is associated with aggressive breast cancer and poor prognosis. Overexpression of HER-2 gene has been shown to enhance malignancy and metastasis. CC regression of HER-2 in mouse tumours leads to suppression of tumour growth and longer life of the animal. This can be done by using padlock DNAs, HERMYC1, HERMYC2 and HERMYC2R, that target a G rich sequence in the promoter region. It inhibits binding of transcription factors. This sequence can be used as a target sequence in antisense technology for therapeutic modulation of gene expression in cultured cells and whole animals, for gene function analysis and target validation for gene therapy and for the detection and amplification of nucleic acids.

XX Sequence 70 BP; 6 A; 25 C; 26 G; 13 T; 0 other; 

Query Match 100.0%; Score 15; DB 20; Length 70;
Best Local Similarity 100.0%; Pred. No. 85;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGGGCTCACT 15
Db 28 TCCATGGGCTCACT 14

RESULT 6
AAV4034
ID AAV4034 standard; DNA; 15 BP.
XX
XX
XX
DT 28-SEP-1998 (first entry)
XX
DE US-1 antisense oligonucleotide used to down regulate ERBB2 oncogene.
XX
KW Antisense oligonucleotide; down regulate; erbB-2; oncogene;
KW tyrosine kinase; breast cancer; radioisotope; hybridisation; probe;
US-1; US-3; US-4; US-5; UT-1; US-D; SC-3; TRACER; ss.
XX
OS Synthetic.
OS Homo sapiens.
XX
PN WO9820168-A1.
XX
PD 14-MAY-1998.
XX
PF 03-NOV-1997; 97700-US200910.
XX
PR 04-NOV-1996; 96US-07408221.
XX
PA (UYDU-) UNIV DUKE.
XX
PI Inglehart JD, Marks JR, Vaughn JP;
XX
DR WPI; 1998-286977/25.

PT Antisense oligonucleotides that down regulate the erbB-2 oncogene -
PT useful to inhibit ERBB2 tyrosine kinase receptor expression in
PT cancer cells to treat epithelial cell, breast, ovarian, lung or
PT colon cancer
XX
PS Example 6; Page 15; 31pp; English.

CC The antisense oligonucleotides AAV40432-Y40439 were used to down
CC regulate the erbB-2 oncogene. This oncogene codes for a 185KD tyrosine
CC kinase linked transmembrane protein which in 30-50% of primary breast
CC cancers is overexpressed. The oligonucleotides are able to inhibit the
CC overexpression of ERBB2 tyrosine kinase receptor in a cell, which can be
CC done by targeting the antisense oligonucleotides to the erbB-2 oncogene.
CC By labelling the oligonucleotides with, for example, a radioisotope,
CC they can also be used as hybridisation probes to detect the erbB2 gene.
CC The oligonucleotides were designated the following names, followed by
CC the location in the erbB-2 gene that they target: US-1 (166-180); US-3
CC (160-174); US-4 (173-187); US-5 (178-192); UT-1 (151-165); US-D

CC (US-1 scrambled control); SC-3 (US-3 scrambled control); TRACER
CC (fluoresceinated tracer). It was found that all of the oligonucleotides
CC (apart from the controls) inhibited the erbB-2 protein, however with
CC varying degrees of effectiveness. US-3 and UT-1 were identified as
CC being the most efficient oligonucleotides at inhibiting erbB-2. The
CC oligonucleotides are useful *in vivo* to treat cancer (especially
CC epithelial cell, breast, ovarian, lung or colon cancer) in a human or
CC other animal, especially when the cancer is characterised by cells that
CC overexpress the ERBB2 tyrosine kinase receptor.
XX
SQ Sequence 15 BP; 2 A; 6 C; 3 G; 4 T; 0 other;
Query Match 93.3%; Score 14; DB 19; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.6e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
Qy 1 TCCATGGGCTCACT 14
Db 2 TCCATGGGCTCACT 15

RESULT 7
AA175566
ID AA175566 standard; DNA; 51 BP.
XX
AC AA175566;
XX
DT 09-NOV-2001 (first entry)
XX
DE Human silent SNP containing nucleic acid SEQ:2507.
XX
KW Human; single nucleotide polymorphism; SNP; genome; gene therapy;
KW protein therapy; vaccine; probe; diagnostic assay; detection;
KW quantitation; restorative therapy; polymorphic; ds.
XX
OS Homo sapiens
PN WO200140521-A2.
XX
PD 07-JUN-2001.
XX
PF 30-NOV-2000; 2000WO-US32758.
XX
PR 30-NOV-1999; 99US-0168138.
PR 29-NOV-2000; 2000US-0726173.
XX
PA (CURA-) CURAGEN CORP.
XX
PI Shimkets RA, Leach M;
XX
DR WPI; 2001-356160/37.
XX
PT Polymorphic nucleic acid sequences, useful in genetic testing and
PT therapy -
XX
PS Claim 1; Page 818; 2653pp; English.
XX
CC AA173060 to AA173867 represent isolated human polymorphic polynucleotide
CC sequences (1), which contain single nucleotide polymorphisms (SNPs).
CC AA153114 to AA153329 represent peptides related to human polymorphic
CC polynucleotide sequences. The sequences can be used in gene and protein
CC therapy, and in vaccine production. (1) and the polypeptides encoded by
CC them may be used in the prevention, diagnosis and treatment of diseases
CC associated with inappropriate expression of polymorphic polypeptides.
CC For example, (1) may be used to treat disorders by rectifying mutations
CC or deletions in a patient's genome that affect the activity of the
CC polypeptides by expressing inactive proteins or to supplement the
CC patients own production of polypeptide. Additionally, (1) and its
CC complementary sequences may also be used as DNA probes in diagnostic
CC assays to detect and quantitate the presence of similar nucleic acids
CC in samples, and therefore which patients may be in need of restorative
CC therapy. The polypeptides encoded by (1) may be used as antigens in the
CC production of antibodies specific for polymorphic polypeptides. The

CC antibodies may also be used to down regulate expression and activity.
 CC The antibodies may also be used as diagnostic agents for detecting the
 CC presence of polymorphic polypeptides in samples.

XX Sequence 51 BP; 7 A; 14 C; 15 G; 15 T; 0 other;

Query Match 93.3%; Score 14; DB 22; Length 51;
 Best Local Similarity 100.0%; Pred. No. 2.9e+02;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 PCR primer; ss.

Qy 2 CCATGGTGTCACT 15
 Db 17 CCATGGTGTCACT 30

RESULT 8

AAV22685/C
 ID AAV22685 standard; DNA; 24 BP.
 XX

AC AAV22685;

XX DT 20-JUL-1998 (first entry)
 XX PCR primer HN40 used to amplify Erbb-2.

DE KW Erbb-2 protein; vaccine; T-cell damage; activation; T-cell; treatment;
 KW prevention; viral disease; cancer; autoimmune disorder; PCR primer; ss.
 KW Synthet. OS

XX PN W09809650-A1.

XX PD 12-MAR-1998.
 XX PF 05-SEP-1997; 97WO-JP03123.

XX 06-SEP-1996; 96JP-0236937.

XX PA (MITU) MITSUBISHI CHEM CORP.
 PI Nakamura H, Shiku H, Sunamoto J;
 XX DR; 1998-193326/17.

XX Vaccine preparation comprises antigen and hydrophobic polysaccharide
 PR e.g. mannan containing sterol groups for treating, e.g. cancer
 XX Example 1: Page 9; 27PP; English.
 XX PCR primers AAV22685-86 are used to amplify DNA encoding Erbb-2
 CC proteins. The specification describes a vaccine preparation that
 CC comprises an antigen and, optionally, a hydrophobic polysaccharide (HPS)
 CC optionally as a composite. The antigen is a protein, such as Erbb-2 class
 CC 1-9 proteins, which initiate T-cell damage. The vaccine activates T-cells
 CC and is useful for the treatment and prevention of viral diseases, cancer
 CC and autoimmune disorders.

XX Sequence 24 BP; 6 A; 6 C; 7 G; 5 T; 0 other;

XX Query Match 89.3%; Score 13.4; DB 19; Length 24;

Best Local Similarity 93.3%; Pred. No. 5.9e+02;
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGTGTCACT 15
 Db 21 TCCATGGTGTCACT 7

RESULT 9
 AAS09199/C
 ID AAS09199 standard; DNA; 29 BP.
 XX AC AAS09199;

XX 07-NOV-2001 (first entry)
 XX PCR primer #1 used to amplify cDNA encoding murine CCR7.
 DE XX Cell fusion assay; fluorescence resonance energy transfer; FRET;
 KW beta-lactamase; inhibition of cell fusion; CD4; cytokine receptor;
 KW viral disease; HIV-1 infection; mouse; murine; CCR7; Th1 cell;
 KW PCR primer; ss.
 XX OS
 XX PN W0200160995-A1.
 XX PD 23-AUG-2001.
 XX PF 13-FEB-2001; 2001WO-US04677.
 XX PR 17-FEB-2000; 2000US-0183309.
 XX PA (MERCK) MERCK & CO INC.
 XX PI Sullivan KA, Benincasa D, Cassieri MA, Mithauli LJ, Shiao LJ;
 PI Tota MR;
 DR WPI; 2001-536569/59.
 PT Determining the amount of fusion that occur between two cells comprises
 PT measurement of fluorescence energy transfer -
 XX Disclosure; Page 14; 59PP; English.
 XX DR WPI; 2001-536569/59.
 CC The present invention relates to a method for determining the amount
 CC of fusion that occurs between two cells, one of which contains the
 CC enzyme beta-lactamase and the other of which contains a fluorescent
 CC substrate of beta-lactamase. The method comprises the measurement of
 CC fluorescence resonance energy transfer (FRET). The invention also
 CC provides methods of identifying inhibitors of the fusion of two
 CC types of cells, particularly when fusion is mediated by the
 CC interaction of a viral protein and target cellular proteins e.g. CD4
 CC and cytokine receptors. The methods are useful for identifying
 CC substances that are useful for the treatment of viral diseases,
 CC particularly for the identification of inhibitors of HIV-1 infection.
 CC The present sequence for PCR primer #1 is used with PCR primer #2
 CC (W09200) to amplify cDNA encoding CCR7 from murine Th1 cells.
 XX Sequence 29 BP; 9 A; 8 C; 10 G; 2 T; 0 other;
 XX Query Match 89.3%; Score 13.4; DB 22; Length 29;
 Best Local Similarity 93.3%; Pred. No. 6e+02;
 Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 XX DR 13-FEB-1996 (first entry)
 XX DE c-erbB-2 antisense nucleic acid #105.
 KW Antisense nucleic acid; c-erbB-2; inhibition; fibroblast; neoplasm;
 KW p185-erbB-2 protein tyrosine kinase; tumour; breast cancer; detection;
 KW immune disease; angiogenesis; ss.
 XX OS
 XX Synthetic.

PN W09517507-A1.
 XX 29-JUN-1995.
 PD 09-DEC-1994; 94WO-EP04094.
 XX 23-DEC-1993; 93EP-0120710.
 XX (BIOG-) BIOPHYSIK GES BIOMOLEKULARE DIAGNOSTIK.
 PA Brysch W, Schlingensiepen G, Schlingensiepen K, Schlingensiepen R;
 DR; 1995-240669/31.
 PT New antisense nucleic acid against C-erbB-2 - for treating or
 preventing neoplasms, immune disease and angiogenesis, also for
 PT diagnosis
 XX Claim 1; Page 48; 55PP; English.
 PS The sequences given in AAQ92658-762 are antisense nucleic acids which
 CC hybridise with part of the mRNA and/or DNA encoding c-erbB-2. These
 antisense nucleic acids are able to inhibit the expression of the
 p185 erbB 2 protein tyrosine kinase activity and cell growth in a
 number of tumour cells including breast cancer cells. Untransformed
 normal fibroblasts are not growth inhibited by anti-c-erbB-2
 antisense compounds suggesting that p185-erbB-2 plays a pathogenic
 role in the growth of the above mentioned tumours. These antisense
 oligonucleotides may be used in the prevention and treatment of
 neoplasms, immune diseases and/or diseases involving pathological
 angiogenesis when associated with c-erbB-2 expression. They may also
 be used to detect expression of the relevant genes.
 XX Sequence 14 BP; 2 A; 4 C; 4 G; 4 T; 0 other;
 Query Match 86.7%; Score 13; DB 16; Length 14;
 Best Local Similarity 100.0%; Pred. No. 9.2e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 QY 3 CATGGTGCCTCACT 15
 |||||||1111111111111111
 Db 1 CATGGTGCCTCACT 13

RESULT 11
 ID AAV48736 standard; DNA: 16 BP.
 XX AAV48736;
 AC AAV48736;
 DE 15-OCT-1998 (first entry)
 XX Erbb-2 gene antisense oligonucleotide Erbb-2-28.
 XX Erbb-2; antisense oligonucleotide; modulate; gene expression; ss.
 OS Synthetic.
 OS Homo sapiens.
 XX EP856579-A1.
 XX 05-AUG-1998.
 XX 31-JAN-1997; 97EP-0101531.
 XX 31-JAN-1997; 97EP-0101531.
 PA (BIOG-) BIOPHYSIK GES BIOMOLEKULARE DIAGNOSTIK.
 PA Brysch W, Schlingensiepen K;
 DR; 1998-400910/35.

PT Preparation of antisense oligo:nucleotide(s) which lack long runs of
 PT consecutive guanosine or inosine - and have specific ratio of
 PT residues able to form two or three hydrogen bonds, have greater
 PT activity and reduced toxicity, used therapeutically or to modulate
 PT growth of cells in culture
 XX
 PS Claim 10; Fig 6a; 286PP; English.
 CC AAV48709-886 represent antisense oligonucleotides directed against the
 CC Erbb-2 gene. Of these, only oligonucleotides AAV48709-91 resulted
 CC in significant reduction in Erbb-2 protein expression, while
 CC oligonucleotides AAV48709-886 had little effect. The oligonucleotides
 CC exemplify the invention. The specification describes oligonucleotides
 CC that contain 8-30 nucleotides, which contain at most nucleotides that
 CC can each form three hydrogen bonds to cytosine; do not contain four
 CC consecutive nucleotides able to form three H-bonds each to four consecutive
 CC nucleotides each able to form two H-bonds each
 CC cytosines, and the ratio between residues able to form two H-bonds each
 CC (2R) or three such bonds (3R) is given by 2R/3R = 0.33-0.72. The
 CC oligonucleotides are used to modulate expression of genes, particularly
 CC the genes for p53, ErbB2, junB, junD, TGF-beta 1 or beta 2 to control
 CC proliferation of primary cell cultures (e.g. bone marrow stem, liver or
 CC kidney cells, osteoblasts, and/or keratinocytes). The
 CC oligonucleotides can also be used to analyse function of proteins (by
 CC altering their expression or activity) and therapeutically, e.g. in
 CC cases of cancer or (targeting TGF) for stimulating the immune system.
 XX Sequence 16 BP; 2 A; 5 C; 5 G; 4 T; 0 other;
 Query Match 86.7%; Score 13; DB 19; Length 16;
 Best Local Similarity 100.0%; Pred. No. 9.4e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3 CATGGTGCCTCACT 15
 |||||||1111111111111111
 Db 1 CATGGTGCCTCACT 13

RESULT 12
 ID AAA53776_C
 ID AAA53776 standard; DNA: 19 BP.
 XX
 AC AAA53776;
 AC AC
 XX DT 04-DEC-2000 (first entry)
 XX XX
 DE Forward primer for HER 2 extracellular domain cDNA.
 XX
 KW HER-2; erbB-2; oncogene; receptor-like tyrosine kinase; insertion;
 KW extracellular domain IIIA; antagonist; intron 8; C-terminal extension;
 KW truncated HER-2; p68; dimerization inhibitor; cytosatic; primer; ss.
 XX OS Homo sapiens
 PN WO200044403-A1.
 XX PD 03-AUG-2000.
 XX PF 20-JAN-2000; 2000WO-US01484.
 XX PR 20-JAN-1999;
 XX 99US-0234208.
 XX PA (UFOR-) UNIV OREGON HEALTH SCI.
 XX PI Doherty JK, Clinton GM, Adelman JP;
 XX DR WPI; 2000-49287/44.
 XX PT Using polypeptides and antibodies that bind to the extracellular domain
 PT of the receptor-like tyrosine kinase HER-2 to treat solid tumors of the
 PT breast, lung, ovaries and colon
 XX

Example 1: Page 14: 46pp; English.

This primer, corresponding to HER-2 cDNA nucleotides 142-161, was used to amplify the HER-2 extracellular domain. The reverse primers used are shown in AA53777 and AA53778.

HER-2/neu (erbB-2) oncogene encodes a receptor-like tyrosine kinase. The extracellular domain of p185-HER-2 is proteolytically shed from breast carcinoma cells in culture and is found in serum of some cancer patients and may be a serum marker of metastatic breast cancer. An alternative HER-2 mRNA of 4.8 kb with a 274 bp insert (intron 8) has been identified. The retained intron is in-frame and encodes a 79 amino acid extension designated ECDIIIA (the present sequence), which is inserted at residue 340 of p185-HER-2. The alternative mRNA predicts a truncated HER-2 protein (approximately 68 kDa) that lacks the transmembrane and intracellular domains (see AAY97240). p68HER-2 specifically binds to p185-HER-2 without activating HER-2. It could therefore block dimerization of p185-HER-2. The p68HER-2 polypeptide binds to a site on the ECD of HER-2 that is different from the site of binding for Herceptin (RTM) (a marketed humanized monoclonal antibody that is used for the treatment of cancer and binds to the ECD of HER-2). The methods, compositions, polypeptides and antibodies are used to treat solid tumours such as breast cancer, small cell lung carcinoma, ovarian cancer and/or colon cancer, especially where over-expression of HER-2 is indicated.

Sequence 19 BP; 4 A; 5 C; 7 G; 3 T; 0 other.

Query Match 86.7%; Score 13; DB 21; Length 19;
 Best Local Similarity 100.0%; Pred. No. 9.5e+02;
 Matches 13; Conservative 0; Mismatches 0;
 Gaps 0; Indels 0;

1 TCCATGGTGGCTCA 13
 1111111111111111
 13 TCCATGGTGGCTCA 1

RESULT 13
 D15945/C
 AAD15845 standard; DNA; 19 BP.
 AAD15845;

15-NOV-2001 (first entry)

Human HER-2 ECD coding sequence amplifying forward PCR Primer #1.
 HER-2; herstatin; antagonist; extracellular domain; ECD; Herceptin;
 solid tumour; cancer; polymorphism; cytostatic; gene therapy; PCR primer;
 ss.

Homo sapiens.
WO200161356-A1.
23-AUG-2001.
16-FEB-2001; 2001WO-US05327.
16-FEB-2000; 2000US-0506079.
(UYOR-) UNIV OREGON HEALTH SCI.
Clinton G, Henner WD, Evans A;
WPI; 2001-529934/58.
New polypeptide, which binds to the extracellular domain of HER-2 for
the treatment of hard tumors -
Example 1; Page 22; 61pp; English.
The invention relates to novel HER-2 (herstatin-2) antagonist
particularly a polypeptide that binds to the extracellular domain (ECD)

of HER-2 at a site that is different from the binding site of humanised antibody, Herceptin, at an affinity of at least 10⁸. The present invention is based upon the initial discovery of an alternative HER-2 mRNA transcript with 74 bp insert of intron 1. The translation product of the alternative transcript is a truncated HER-2 protein designated p68HER-2 which lacks the transmembrane and intracellular domains of p185HER-2 but contains ECD I, II of the p185HER-2 and the novel ECD III. The ECD III-containing polypeptides bind tightly to, and thus antagonise the HER-2 receptor. The peptides, which bind to an HER-2 ECD, and the nucleic acids encoding these are useful to treat, diagnose and identify solid tumours. The present sequence is a PCR primer used for amplifying human HER2 ECD coding sequence.

XX SQ Sequence 19 BP; 4 A; 5 C; 7 G; 3 T; 0 other;
 Query Match 86.7%; Score 13; DB 24; Length 19;
 Best Local Similarity 100.0%; Pred. No. 9.5e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCCATGGGCTCA 13
 |||||
 DB 13 TCCATGGGCTCA 1
 |||||

RESULT 15
 AAV84090
 ID AAV84090 standard; DNA; 20 BP.
 XX AC AAV84090;
 XX DT 12-MAR-1999 (first entry)
 XX DE PCR primer MTL(P) used to amplify the iap, p35 and dad-1 genes.
 XX KW Transgenic maize; Agrobacterium induced necrosis inhibition;
 XX metallothionein-like promoter; iap; p35; dad-1; PCR primer; ss.
 OS Synthetic.
 XX PN WO9854961-A2.
 XX PD 10-DEC-1998.
 XX PF 29-MAY-1998; 98WO-EP03215.
 XX PR 02-JUN-1997; 97US-0567869.
 XX PA (NOVS) NOVARTIS-ERFINDUNGEN VERW GES MBH.
 XX PI Hansen G;
 XX DR WO99-059863/05.
 XX PR Transforming plant cells using Agrobacterium - in conditions that
 inhibit Agrobacterium-induced necrosis
 XX PS Example 8; Page 25; 47PP; English.
 XX PCR primers AAV84090-93 were used for the amplification and detection
 of iap, p35 and dad-1 genes in transgenic maize callus, which was
 transformed with these genes using the method of the invention. The
 genes were cloned under the control of a metallothionein-like
 promoter (MLP). PCR primer AAV84090 hybridises promoter sequences, and
 is used in combination with each of the other primers in separate
 reactions. The specification describes a new method for transforming a
 plant cell with a gene of interest. The method comprises exposing the
 cell to Agrobacterium carrying that gene, under conditions which inhibit
 Agrobacterium induced necrosis (AIN). The method is used to transform
 plants with a gene of interest.

XX SQ Sequence 20 BP; 4 A; 4 C; 7 G; 5 T; 0 other;
 Query Match 86.7%; Score 13; DB 20; Length 20;
 Best Local Similarity 100.0%; Pred. No. 9.6e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCCATGGGCTCA 13
 |||||
 DB 6 TCCATGGGCTCA 18
 |||||

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: November 21, 2002, 04:47:34 ; Search time 2148 Seconds
 (without alignments)
 113.097 Million cell updates/sec

Title: US-09-716-320-3

Perfect score: 15

Sequence: 1 tccatgtgtctact 15

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters: 357874

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : EST:*

1: em_estba:*

2: em_estth:*

3: em_estin:*

4: em_estnu:*

5: em_estcov:*

6: em_estpl:*

7: em_estro:*

8: em_htc:*

9: gb_est1:*

10: gb_est2:*

11: gb_htc:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estfun:*

16: em_escom:*

17: gb_gss:*

18: em_gss_hum:*

19: em_gss_inv:*

20: em_gss_pln:*

21: em_gss_vrt:*

22: em_gss_fun:*

23: em_gss_mam:*

24: em_gss_mus:*

25: em_gss_pro:*

26: em_gss_rnd:*

27: em_gss_rnd:*

RESULT 1
 BR023447/c
 LOCUS
 ie80e10.y1 Melton Normalized Human Islet 4 N4-HIS 1 Homo sapiens
 DEFINITION CDNA clone IMAGE: 5673307 5', mRNA sequence.
 ACCESSION BM023447
 VERSION BM023447.1 GI:16537803
 KEYWORDS EST.
 SOURCE human.
 ORGANISM Homo sapiens
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 75)
 Melton, D., Brown, J., Kent, Y., Perlmutter, A., Lee, C., Kaestner, K., Lemishka, I., Scarce, M., Brestelli, J., Gradiolli, G., Clifton, S., Hillier, L., Marr, M., Page, D., Wylie, T., Martin, J., Blustein, A., Schmitt, A., Theising, B., Ritter, E., Ronko, I., Bennett, J., Cardenas, M., Gibbons, M., McCann, R., Cole, R., Tsagareishvili, R., Williams, T., Jackson, Y. and Bowers, Y.

ENDOCRINE PANCREAS CONSORTIUM

Unpublished (2000)

Other ESTs: 1e80e10.x1
 Contact: Douglas Meijton, Klaus H. Kaestner, & Hiroshi Inoue

ENDOCRINE PANCREAS CONSORTIUM
 Harvard University, Howard Hughes Medical Institute
 Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge,
 MA 02138
 Tel: 617-495-1812
 Fax: 617-495-8557

SUMMARIES

Result No.	Query	Match	Length	DB ID	Description
c 1	13.4	89.3	75	13 BM023447	BM023447 ie80e10.y1
c 2	12.4	82.7	58	9 A1022662	A1022662 ox5ch11.x
c 3	12.4	82.7	74	9 AL362944	AL362944 AL162924
c 4	12.4	82.7	77	14 WI5664	WI5664 mb52d02.r1
c 5	12.4	82.7	80	10 AV832470	AV832470 AW832470
c 6	12.4	82.7	96	14 BQ566161	BQ566161 9153e03.y

ALIGNMENTS

c 7	8	12	80.0	62	AZ648327 1M0517K13
c 9	12	80.0	85	9	AL465857 T. brucei
c 10	12	80.0	90	9	A193084 sb3a06.y
c 11	12	80.0	92	17	A690354 vt31b01.r
c 12	11.8	78.7	38	17	AZ590927 1M040061G16
c 13	11.8	78.7	65	9	AL494114 T. brucei
c 14	11.8	78.7	70	17	AA285022 zt5e10.s
c 15	11.8	78.7	72	17	BH805669 1008061H0
c 16	11.8	78.7	80	17	AZ79958 2A0057619
c 17	11.8	78.7	86	17	BH805273 32E2-1-33
c 18	11.8	78.7	89	13	BH06000 1008063G0
c 19	11.8	78.7	91	14	BI472373 fs02d01.y
c 20	11.8	78.7	92	14	D18160 MUSGS00418
c 21	11.8	78.7	97	14	T62112 yC66202.r1
c 22	11.8	78.7	99	17	AZ433742 1M0219H13
c 23	11.8	78.7	100	9	AA865812 og97h05.s
c 24	11.4	76.0	22	17	A2954618 2N0220E40
c 25	11.4	76.0	41	9	AA799065
c 26	11.4	76.0	46	9	AA591686 v113g08.r
c 27	11.4	76.0	50	9	AA108275 EST01875
c 28	11.4	76.0	50	9	AU102591
c 29	11.4	76.0	50	9	AU102592
c 30	11.4	76.0	50	9	AU102593
c 31	11.4	76.0	50	9	AU102594
c 32	11.4	76.0	50	9	AU102595
c 33	11.4	76.0	50	9	AU107574
c 34	11.4	76.0	56	9	AU166187
c 35	11.4	76.0	60	17	AL752489
c 36	11.4	76.0	68	14	T7238
c 37	11.4	76.0	73	9	AA220616
c 38	11.4	76.0	74	12	BF28890
c 39	11.4	76.0	77	9	AA387938
c 40	11.4	76.0	77	14	T62949 yb99h02.s1
c 41	11.4	76.0	85	9	A1167298 ox5c07.s
c 42	11.4	76.0	85	9	AA469098 ne16g10.s
c 43	11.4	76.0	85	9	AA529090 v132d12.r
c 44	11.4	76.0	90	9	AA213781 zr92g11.r
c 45	11.4	76.0	91	9	AA009130 mo21a01.r

Email: dmelton@biohp.harvard.edu
Library was constructed by Dr. Douglas Melton DNA sequencing by:
Washington University Sequencing Center For information on
obtaining a clone please contact: Tel: 314-362-4000

Sequence is available on request. Please contact: Julianne Brown (jbrown@fas.harvard.edu)

Location/Qualifiers 1..75 Liver spleen INFLIS library. 1st strand cDNA was made with a PAC I - Oligo(dT) primer [5, 11].

```

/organism="Homo sapiens"
/db_xref="TAXON:9606"
/clone="IMAGE:567307"
/clone.lib="Melton Normalized Human Islet 4 N4-HIS 1"
/sex="Both"
/tissue.type="Islets of Langenhan's"
/dev_stage="Adult"
/lab_host="DH10B"
/note="Organ: Pancreas; Vector: pSPORT1; Site_1: Not 1;
Site_2: Sal 1; Starting library constructed using
SuperScript Plasmid Library Kit (Life Technologies). CDNA
made by oligo-dT priming. Size-selected by column
fractionation; average insert size 1.08 kb. Library was
amplified once on solid support and plasmid DNA from
library was prepared. The library DNA was normalized from
method #4 from Bonaldo, Lennon, and Soares 1996 Genome
Research 6:91-906; 0.5 micromgram single-stranded library
plasmid DNA was mixed with 5 micrograms PCR product.
representing library inserts and hybridized to an EcoI of
20. Single-stranded (unhybridized) plasmids were isolated
by hydroxylapatite chromatography and used to make this

```

2ATGGGCTCACT 15
 ||||| ||||| |||
 2ATGGGCTCACT 36

AI022662 58 bp mRNA linear EST 18-JUN-1998
 pr05hh11.x1 Soares_fetal_liver_spleen_1NFLS_S1 Homo sapiens cDNA
 clone IMAGE:165493 3' similar to SW:TCX1_HUMAN Q15763 T-COMPLEX
 TESTIS-SPECIFIC PROTEIN 1 HOMOLOG ; mRNA sequence.

seq_primer: -40001 two. by from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1..58
/organism="Homo sapiens"

/organism="Mus musculus"
 /strain="BALB/c"
 /db_xref="9153603"
 /clone_lib="House Organ of Corti cDNA pBluescript"
 /sex="male and female"
 /dev_stage="Postnatal day 5 to 13"
 /note="Organ: Organ of Corti; Vector: pBluescript; The organ of Corti (OC) was fine dissected from a total of 386 OC as follows: 102 samples from post-natal (P) day 5; 72 from P6; 60 from P7; 46 from P8; 18 from P9; 20 from P10; 14 from P12 and 24 from P13. After killing animals by cervical dislocation followed by decapitation, the bulla was removed and opened in Leibowitz medium. The body capsule of the cochlea was chipped away, stria vascularis and spiral ligament were removed and the sensory epithelium was carefully dissected out of the modiolus. Total RNA was extracted using the micro Fasttrack Kit (catalog # K1593-02; Invitrogen, Carlsbad, CA), according to manufacturer's instructions. Reverse transcription and library construction were carried out with the Uni-ZAP XR vector kit (catalog # 237211, Stratagene) and Uni-ZAP XR Gigapack III Gold Cloning Kit (catalog # 237612), both from Stratagene (La Jolla, CA, USA), according to manufacturer's instructions. Briefly: 1.5 ug mRNA was reverse transcribed using a hybrid oligo(dT) linker primer that contains an Xba I site. First strand synthesis was primed with the linker primer and transcribed using Moloney murine leukemia virus reverse transcriptase (MLV-R) and 5'-methyl dCTP. The second strand was synthesized with DNA Polymerase and RNase H. Complementary DNA was blunt ended with Pfu DNA Polymerase, ligated with ECO RI adaptors in the presence of ligase and digested over Pharmacia Size Sep400 (Pharmacia, Uppsala, Sweden) and Clontech Chrova Spin-1000 (Clontech, Palo Alto, CA) columns to enrich for cDNAs greater than 400bp and 1000 bp, respectively. The cDNA was then directionally ligated to the Uni-ZAP XR vector, which had been predigested with ECO RI and Xba I. The phagemid was packaged with Gigapack III Gold and, upon titration on XL1 Blue MRF' cells, the yield of the phage library was estimated to be 11,100,000 recombinants. Stratagene's Expressist Interference resistance helper phage (catalogue # 211203) was adopted to rescue plasmid DNA from the phages. Upon plating of the rescued library, individual cDNA clones were selected and grown in 96-well, 2 ml growth plate. Plasmid DNA was purified from 200 ul of saturated culture with the Concert96(TM) plasmid purification kit (Invitrogen, Carlsbad, CA) as instructed by the manufacturer. ESNs from the 5' end of the cDNA clones were generated with the universal M13 reverse primer (CAGGAACAGCTATGACC) and 25% strength Biopore terminator sequencing chemistry (Applied Biosystems, Foster City, CA). Sequencing reactions were performed on MJ Retard thermal cyclers (MJ Research, Waltham, MA), and analyzed on 3700 automated capillary sequencers using POP5 polymer (Applied Biosystems, Foster City, CA). The frequency distribution of the library is as follows: 72% of genes have 1 copy; 14.3% 2; 12% 3-10; 1.4% 11-50 and 0.1% 51-150. As to gene function, 45% of genes are present in GenBank and have known function; 23% have hits in GenBank, but do not have assigned function; 12% are uncharacterized ESNs and 20% are unidentified."

RESULT 7
 AZ648327/C LOCUS AZ648327 Mouse 10kb plasmid UGCLM clone UGCLM0517K13 F, DNA sequence.
 DEFINITION IM0517K13F Mouse 10kb plasmid UGCLM library Mus musculus genomic sequence.
 ACCESSION AZ648327
 VERSION AZ648327.1 GI:11780683
 KEYWORDS GSS.
 SOURCE house, mouse.
 ORGANISM Mus musculus
 Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE 1 (bases 1 to 62)
 AUTHORS Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Dural, B., Hamill, C., Islam, H., Longacre, S., Mahmoud, M., Meenon, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausern, A., Wright, D., Weiss, R.
 TITLE Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
 JOURNAL Unpublished (2000)
 COMMENT Contact: Robert B. Weiss
 University of Utah Genome Center
 University of Utah
 Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA
 Tel: 801 585 5606
 Fax: 801 585 7177
 Email: ddunn@genetics.utah.edu
 Insert Length: 10000 Std Error: 0.00
 Plate: 0517 row: K column: 13
 Seq primer: CGTGTAACGAGGGCCAGT
 Class: Plasmid ends
 1. organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="txon:10090"
 /clone="UGCLM0517K13"
 /clone_id="Mouse 10kb Plasmid UGCLM library"
 /note="Vector: PND42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (<http://www.jax.org/resources/documents/dnarecs/>). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adapter oligonucleotides were ligated to the blunt ends in high molar excess. The adapter DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of PWD2 (9114732114 [gb:AF129072.1]), a copy-number inducible derivative of Plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapter mouse DNA was annealed to adapter vector DNA, and transformed into chemically-competent *E. coli* XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
 BASE COUNT 11 a 20 c 15 g 15 t
 ORIGIN ORIGIN

Query Match 82.7%; Score 12.4%; DB 14; Length 96;
 Best Local Similarity 92.9%; Pred. No. 2.3e+04;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CCATGGTGCCTCA 13
 Db 23 CCATGGTGCCTCA 34

Query Match 80.0%; Score 12; DB 17; Length 62;
 Best Local Similarity 100.0%; Pred. No. 2.3e+04;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

RESULT 8	TA138D06P	TA138D06P	82 bp	DNA	linear	GSS 13-DEC-2000
LOCUS	T. brucei sheared genomic DNA clone 138d06, forward sequence, genomic survey sequence.					
DEFINITION	AL465857	AL465857.1	GI:11835283			
ACCESSION						
VERSION						
KEYWORDS	GSS,					
ORGANISM	Trypanosoma brucei.					
FEATURES	Source	Trypanosoma brucei.	Kinetoplastida; Trypanosomatidae; trypanozoa; Euglenozoa; Kineto			
REFERENCE	1 (bases 1 to 82)	Hall, N., Bowman, S., Lennard, N.J., Doggett, J., Atkin, R., Chillingworth, C., Ormond, D., Harris, B., El-Sayed, N., Hou, L., Melville, S.E., Rajandream, M.A. and Barrell, B.G.	Rockville, MD. Genomic DNA isolated from a cloned population of trypano			
AUTHORS			brucei. (TREU927/4 Gurrat 10.1) was mechanically sheared to give a tight size distribution (4 kb). The v + 1 method used for the library construction is described in detail in Smith, H. and Venter, J.C. (Making small insert libraries for whole genome shotgun sequencing projects. In Genome Sequencing: A Practical Approach, eds. M. Vaudin and B. Barrell, Oxford University Press, 1999).			
TITLE			Email: nelsayed@tigr.org			
JOURNAL			Details of T. brucei sequencing at the Sanger Centre are available at http://www.sanger.ac.uk/Projects/T_brucei/ .			
COMMENT			Location/Qualifiers			
			1..82			
			/organism="Trypanosoma brucei"			
			/strain="TREU927"			
			/db_xref="taxon:5691"			
			/clone" 138d06"			
BASE COUNT	33	a	13 c	12 g	24 t	
ORIGIN						
FEATURES	Query Match	80.0%	Score 12;	DB 17;	Length 82;	
	Best Local Similarity	100.0%	Pred. No. 3.4e+04;			
	Matches 12;	Conservative	Mismatches 0;	Indels 0;	Gaps 0;	
Qy	4	ATGGTGCTCT	15			
Db	60	ATGGTGCTCT	71			
RESULT 9	AI930840/c	AI930840	85 bp	mRNA	linear	EST 30-NOV-2001
LOCUS	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eu dicotyledons; core eudicots; Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae; Glycine					
DEFINITION	sh43a06.y1 Gm-c1015 Glycine max cDNA clone Gm-c1015.5, similar to TR:Q40290 Q40290 CAS15. [2] TR:Q40334 ;					
ACCESSION	A1930840					
VERSION	AI930840.1	GI:5666804				
KEYWORDS	EST.					
FEATURES	Source	soybean				
		Glycine max				
		Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eu dicotyledons; core eudicots; Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae; Glycine				
REFERENCE	1 (bases 1 to 85)	Shoemaker, R., Keim, P., Vodkin, L., Erpelding, J., Coryell, V., Khanna, A., Bolla, B., Marra, M., Hillier, L., Kucaba, T., Martin, J., Beck, C., Wylie, T., Underwood, K., Stoeckoe, M., Theising, P., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Pape, D., Harvey, N., Schurk				
AUTHORS						

FEATURES	at http://www.sanger.ac.uk/Projects/T_brucei/ .
source	Location/Qualifiers 1. .38
	/organism="Trypanosoma brucei" /strain="TREU927" /db_xref="Taxon:5691"
BASE COUNT	16 a 5 c 6 g 11 t
ORIGIN	
Query Match	78.7%; Score 11.8; DB 17; Length 38;
Best Local Similarity	86.7%; Pred. No. 2.9e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	
Qy	1 TCCATGGTCCTACT 15 111111111111111111 Db 23 TCCACGGTCCT 37
RESULT 14	
LOCUS	BH805669 70 bp DNA linear GSS 25-APR-2002
DEFINITION	100861H01.2EL.x1 1008 - RescueMu Grid I Zea mays genomic, DNA sequence.
ACCESSION	BH805669
VERSION	BH805669.1 GI:20323197
KEYWORDS	GSS.
SOURCE	Zea mays
ORGANISM	Zea mays Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Magnoliidae; Poales; Poaceae; PACC clade; Panicoidea; Andropogoneae; Zea.
REFERENCE	1 (bases 1 to 70)
AUTHORS	Walbot, V
TITLE	Maize genomic sequences found using engineered RescueMu transposon
JOURNAL	Unpublished (2001)
COMMENT	Contact: Walbot V Department of Biological Sciences Stanford University 855 California Ave, Palo Alto, CA 94304, USA Tel: 650 723 2227 Fax: 650 725 8221 Email: walbot@stanford.edu
	Possible ligation site of ends cut by 2 different endonucleases.
AA285022	AA285022 65 bp mRNA linear EST 15 MAY-1997
LOCUS	zta25e10.51 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:714186 3' similar to gb:X57809 IG LAMBDA CHAIN C REGIONS (HUMAN); mRNA sequence.
DEFINITION	AA285022
ACCESSION	AA285022.1 GT:1927703
VERSION	
KEYWORDS	EST.
SOURCE	Homo sapiens
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarhini; Hominidae; Homo.
1 (bases 1 to 65)	
REFERENCE	1 (bases 1 to 65).
AUTHORS	Hillier, L., Allen, M., Bowles, L., Duboule, T., Geisel, G., Jost, S., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marrs, M., Martin, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie, T., Waterston, R. and Wilson, R.
TITLE	WashU-Merck EST Project 1997
JOURNAL	Unpublished (1997)
COMMENT	Contact: Wilson RK Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: est@wustl.edu
	This clone is available royalty-free through LInN; contact the IMAGE Consortium (http://image.llnl.gov) for further information.
Seq primer:	-41m13 fwd. ET from Amersham.
FEATURES	Location/Qualifiers
source	1. .65
	/organism="Homo sapiens" /db_xref="taxon:9606" /clone_lid="Soares ovary tumor NbHOT" /sex="Female" /tissue_type="ovarian tumor" /lab_host="DH10B (ampicillin resistant)"
	/note="Organ: ovary. Vector: pMT2D (Pharmacia) with a modified polylinker. Site:1: Not I; Site:2: Eco RI; 1st strand cDNA was printed with a Not I - oligo(dT) primer [5'-TCCTTACCAATCTGAGGGAGGCCGCGTTTTTTTTT 3'], double-stranded cDNA was size selected, ligated to Eco RI adaptors (Pharmacia), digested with Not I and cloned into the Not I and Eco RI sites of a modified pMT3 vector (Pharmacia). Library constructed by Bento Soares and M. Fatima Bonaldo."
BASE COUNT	7 a 21 c 17 g 20 t
ORIGIN	
Query Match	78.7%; Score 11.8; DB 9; Length 65;
Best Local Similarity	86.7%; Pred. No. 3.8e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;	
Qy	1 TCCATGGTCCTACT 15 111111111111111111 Db 12 TCCCTGGAGTCCTACT 26
RESULT 15	
LOCUS	AZ799758 72 bp DNA linear GSS 16-FEB-2001
DEFINITION	2M005(G19F) Mouse 10kb plasmid UUGCT library Mus musculus genomic, DNA sequence.
ACCESSION	AZ799758
VERSION	AZ799758.1 GI:12951196

KEYWORDS	house mouse.
SOURCE	Mus musculus
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Muridae; Murinae; Mus.
REFERENCE	Dunn, D., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C., Islam, H., Longacre, S., Mahmoud, M., Meinen, E., Pedersen, T., Reilly, M., Rose, M., Rose, R., Stokes, R., Tiney, A., von Niederhäusern, A., and Wright, D., Weiss, R.
AUTHORS	
TITLE	Mouse whole genome scaffolding with paired end reads from 10 kb plasmid inserts
JOURNAL	Unpublished (2000)
COMMENT	Contact: Robert B. Weiss University of Utah Genome Center University of Utah Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLC, UT 84112, USA Tel: 801 585 5606 Fax: 801 585 7177
DATA	Email: ddunn@genetics.utah.edu Insert Length: 10000 Std Error: 0.00 Plate: 0057 row: G column: 19 Seq primer: CGTGTGAAACGACGCGCACT Class: plasmid ends High quality sequence stop: 72.
FEATURES	Location/Qualifiers
	1. .72 source /organism="Mus musculus" /strain="C57BL/6J" /db_xref="taxon:10990" /clone_id="UTGC2M0057G19" /lab_host="E. coli strain XL10-Gold, T1-resistant, F-" /note="Vector: PWD20v; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource (http://www.jax.org/resources/documents/dnarecs/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adapter oligonucleotides were ligated to the blunt ends in high molar excess. The adaptored DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (gi:4732114 gb AF120072.1), a copy number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adaptored mouse DNA was annealed to adaptored vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."
BASE COUNT	13 a 18 c 16 g 25 t
ORIGIN	Query Match 78.7%; Score 11.8; DB 17; Length 72; Best Local Similarity 86.7%; Pred. No. 4e+04 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy	1 TCCATGGTGCCTACT 15 1
Db	48 TCCATGGTGCCTACT 62
SEARCH	Search completed: November 21, 2002, 06:51:59 Job time: 2153 sec

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: November 21, 2002, 05:03:29 ; Search time 67 Seconds

(without alignments)
68.659 Million cell updates/sec

Title: US-09-716-320-3
Perfect score: 15
Sequence: 1 tcatgttctact 15

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0
Maximum DB seq length: 100

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_NA:
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:
*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
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c	2	15	100.0	24	1	US-08-435-350-4
c	3	14	93.3	15	2	US-08-421-1
c	4	13	86.7	14	4	US-08-666-341A-105
c	5	13	86.7	19	4	US-09-630-155-3
c	6	13	86.7	20	4	US-09-111-13
c	7	13	86.7	26	4	US-08-463-691-18
c	8	13	86.7	26	4	US-08-255-236-6
c	9	12	82.7	22	4	US-08-249-528-5
c	10	12.4	82.7	47	4	US-09-338-907-248
c	11	12.4	82.7	47	4	US-09-248-207-248
c	12	12	80.0	27	1	US-08-503-730-44
c	13	12	80.0	53	1	US-08-503-730-29
c	14	12	80.0	62	1	US-08-503-730-30
c	15	11.8	78.7	50	2	US-08-832-468-6
c	16	11.8	78.7	54	1	US-08-362-240A-1077
c	17	11.8	78.7	54	4	US-08-534-040-4423
c	18	11.8	78.7	64	1	US-08-290-592E-41
c	19	11.8	78.7	64	5	PCT-US96-0944E-41
c	20	11.8	78.7	100	4	US-08-442-144A-23
c	21	11.8	78.7	100	4	US-08-411-970-23
c	22	11.8	78.7	100	4	US-08-222-653-23
c	23	11.8	78.7	100	4	US-08-441-971-23
c	24	11.8	78.7	100	3	US-08-655-086-3
c	25	11.4	76.0	15	4	US-09-646-198
c	26	11.4	76.0	20	3	US-09-209-799-190
c	27	11.4	76.0	26	2	US-08-739-581B-16

ALIGNMENTS

RESULT 1									
US-08-91-830A-3	Sequence 3, Appli	Application US/08991830A							
Patent No. 602892									
GENERAL INFORMATION:									
APPLICANT: Chang, Esther H.									
APPLICANT: Pirollo, Kathleen F.									
TITLE OF INVENTION: Compositions and Methods for Reducing Radiation and Drug Re									
NUMBER OF SEQUENCES: 9									
CORRESPONDENCE ADDRESS:									
ADDRESSEE: Sana A. Pratt									
STREET: 10821 Hillbrook Lane									
CITY: Potomac									
STATE: MARYLAND									
COUNTRY: USA									
ZIP: 20854									
COMPUTER READABLE FORM:									
MEDIUM TYPE: Floppy disk									
COMPUTER: Apple Macintosh									
OPERATING SYSTEM: Macintosh 7.5									
SOFTWARE: Microsoft Word 6.0									
CURRENT APPLICATION DATA:									
APPLICATION NUMBER: US/08/99-830A									
FILING DATE: 16 December 1999									
CLASSIFICATION: 514									
PRIOR APPLICATION NUMBER: 60/034,160									
APPLICATION NUMBER: 60/034,160									
FILING DATE: 30 December 1996									
ATTORNEY/AGENT INFORMATION:									
NAME: Sana A. Pratt									
REGISTRATION NUMBER: 39,441									
SEQUENCE DOCKET NUMBER:									
TELECOMMUNICATION INFORMATION:									
TELEPHONE: (301) 294-9171									
TELEFAX: (301) 294-7357									
INFORMATION FOR SEQ ID NO: 3:									
SEQUENCE CHARACTERISTICS:									
LENGTH: 15 base pairs									
TYPE: Nucleic acid									
STRANDEDNESS: Single									
TOPOLOGY: Linear									
MOLECULE TYPE: DNA									
US-08-91-830A-3									

Query Match 8 Score 100.0% DB 3; Length 15;
Best Local Similarity 100.0% Pred. No. 17;
Matches 15; Conservate 0; Mismatches 0;
Indels 0; Gaps 0;

QY 1 TCCATGGTGCCTACT 15
|||||||||||||||||

Db 1 TCCATGGTCACT 15

RESULT 2
 US-08-435-350-4/c
 Sequence 4, Application US/08435350
 Patent No. 5999704
 GENERAL INFORMATION:
 APPLICANT: Kenneth G. Draper
 TITLE OF INVENTION: METHOD AND REAGENT FOR
 TITLE OF INVENTION: TREATMENT OF BREAST CANCER
 NUMBER OF SEQUENCES: 118
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Lyon & Lyon
 STREET: 611 West Sixth Street
 CITY: Los Angeles
 STATE: California
 ZIP: 90017

COMPUTER READABLE FORM:
 MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: IBM P.C. DOS (Version 5.0)
 SOFTWARE: Wordperfect (Version 5.1)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08435,350
 FILING DATE: 05-MAY-1995
 CLASSIFICATION: 514
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 07/936,531
 FILING DATE: August 26, 1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Warburg, Richard J.
 REGISTRATION NUMBER: 32,327
 REFERENCE/DOCKET NUMBER: 197/245
 TELEPHONE: (213) 489-1600
 TELEFAX: (213) 955-0440
 TELEX: 67-3510

RESULT 3
 US-08-435-350-4
 Sequence 2, Application US/08740821
 Patent No. 5910533
 GENERAL INFORMATION:
 APPLICANT: Marks, Jeffrey R.
 APPLICANT: Vaughn, James P.
 APPLICANT: Iglehart, James D.
 TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Bell, Seitzer, Park & Gibson, P.A.
 STREET: Post Office Drawer 34009
 CITY: Charlotte
 STATE: No. 5910583th Carolina
 COUNTRY: USARESULT 4
 US-08-666-341A-105
 Sequence 105, Application US/08666341A
 Patent No. 6365345
 GENERAL INFORMATION:
 APPLICANT:
 TITLE OF INVENTION: Antisense nucleic Acids for the
 prevention and treatment of disorders in which expression
 of c-erbB plays a role
 NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Jacobson, Price, Holman and Stern, PLLC
 STREET: 400 Seventh street, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20004

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EE0)

RESULT 4
 US-08-666-341A-105
 Sequence 105, Application US/08666341A
 Patent No. 6365345
 GENERAL INFORMATION:
 APPLICANT:
 TITLE OF INVENTION: Antisense nucleic Acids for the
 prevention and treatment of disorders in which expression
 of c-erbB plays a role
 NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Jacobson, Price, Holman and Stern, PLLC
 STREET: 400 Seventh street, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20004

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EE0)

RESULT 3
 US-08-740-821-1
 Sequence 1, Application US/08740821
 Patent No. 5910533
 GENERAL INFORMATION:
 APPLICANT: Marks, Jeffrey R.
 APPLICANT: Vaughn, James P.
 APPLICANT: Iglehart, James D.
 TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES
 NUMBER OF SEQUENCES: 8
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Bell, Seitzer, Park & Gibson, P.A.
 STREET: Post Office Drawer 34009
 CITY: Charlotte
 STATE: No. 5910583th Carolina
 COUNTRY: USA

RESULT 3
 US-08-666-341A-105
 Sequence 105, Application US/08666341A
 Patent No. 6365345
 GENERAL INFORMATION:
 APPLICANT:
 TITLE OF INVENTION: Antisense nucleic Acids for the
 prevention and treatment of disorders in which expression
 of c-erbB plays a role
 NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Jacobson, Price, Holman and Stern, PLLC
 STREET: 400 Seventh street, N.W.
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20004

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EE0)

RESULT 3
 US-08-666-341A-105
 Sequence 105, Application US/08666341A
 Patent No. 6365345
 GENERAL INFORMATION:
 APPLICANT:
 TITLE OF INVENTION: Antisense nucleic Acids for the
 prevention and treatment of disorders in which expression
 of c-erbB plays a role
 NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Bell, Seitzer, Park & Gibson, P.A.
 STREET: Post Office Drawer 34009
 CITY: Charlotte
 STATE: No. 5910583th Carolina
 COUNTRY: USA

RESULT 3
 US-08-666-341A-105
 Sequence 105, Application US/08666341A
 Patent No. 6365345
 GENERAL INFORMATION:
 APPLICANT:
 TITLE OF INVENTION: Antisense nucleic Acids for the
 prevention and treatment of disorders in which expression
 of c-erbB plays a role
 NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Bell, Seitzer, Park & Gibson, P.A.
 STREET: Post Office Drawer 34009
 CITY: Charlotte
 STATE: No. 5910583th Carolina
 COUNTRY: USA

RESULT 3
 US-08-666-341A-105
 Sequence 105, Application US/08666341A
 Patent No. 6365345
 GENERAL INFORMATION:
 APPLICANT:
 TITLE OF INVENTION: Antisense nucleic Acids for the
 prevention and treatment of disorders in which expression
 of c-erbB plays a role
 NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Bell, Seitzer, Park & Gibson, P.A.
 STREET: Post Office Drawer 34009
 CITY: Charlotte
 STATE: No. 5910583th Carolina
 COUNTRY: USA

Query Match 86.7%; Score 13; DB 4; Length 14;
 Best Local Similarity 100.0%; Pred. No. 2e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Country: USA
 ZIP: 27709
 Computer Readable Form:
 Medium Type: Floppy disk
 Computer: IBM PC Compatible
 Operating System: PC-DOS/MS-DOS
 Software: PatentIn Release #1.0, Version #1.30
 Current Application Data:
 Application Number: US/09/089,111
 Filing Date: 02-Jun-1998
 Classification:
 Attorney/Agent Information:
 Name: Hoxie, Thomas
 Registration Number: 32,993
 Reference/Docket Number: CGC1928/R
 Telecommunication Information:
 Telephone: 919-541-8614
 Telefax: 919-541-8889
 Information for Seq ID No: 3:
 Sequence Characteristics:
 Length: 20 base pairs
 Type: nucleic acid
 Strandedness: single
 Topology: Linear
 Molecule Type: DNA (genomic)
 Hypothetical: NO
 Anti-Sense: NO
 Immediate Source:
 Clone: MTL (P)
 US-09-089-111-3

Query Match 86.7%; Score 13; DB 4; Length 20;
 Best Local Similarity 100.0%; Pred. No. 2.1e+02;
 Matches 0; Indels 0; Gaps 0;

Result 7
 US-08-163-691-18
 Sequence 18, Application US/08463691
 Patent No. 616712
 General Information:
 Applicant: J. Gordon Foulkes et al.
 Patent No. 616712
 Title of Invention: Methods of transcriptionally
 Modulating Expression of Viral Genes and Genes Useful for t
 Title of Invention: Production of Proteins
 Number of Sequences: 20
 Correspondence Address:
 Addressee: John P. White, Esc.
 Street: 1185 Avenue of the Americas
 City: New York
 State: New York
 Country: USA
 Zip: 10016
 Computer Readable Form:
 Medium Type: Floppy disk
 Computer: IBM PC Compatible
 Operating System: PC-DOS/MS-DOS
 Software: PatentIn Release #1.0, Version #1.25
 Current Application Data:
 Application Number: US/08/463,691
 Filing Date: 5-JUN-1995
 Classification: 435
 Attorney/Agent Information:
 Name: White, John P.
 Registration Number: 28,678
 Telecommunication Information:
 Reference/Docket Number: 26,134-G12
 Telephone: 212-278-0400
 Telefax: 212-591-0525

Result 6
 US-09-089-111-3
 Sequence 3, Application US/09089111
 General Information:
 Patent No. 616965
 Applicant: Hansen, Genevieve
 Title of Invention: Plant Transformation Methods
 Number of Sequences: 12
 Correspondence Address:
 Addressee: No. 616965artis Corporation
 Street: 3054 Cornwallis Rd.
 City: Research Triangle Park
 State: NC

Result 5
 US-09-630-155-3/c
 Sequence 3, Application US/09630155
 General Information:
 Patent No. 6414130
 Title of Invention: HER-2 BINDING ANTAGONISTS
 Number of Sequences: 9
 Correspondence Address:
 Addressee: DAVIS WRIGHT TREMAINE LLP
 Street: 1501 Fourth Avenue, 2600 Century Square
 City: Seattle
 State: Washington
 Country: U.S.A.
 Zip: 98101
 Computer Readable Form:
 Medium Type: Floppy disk
 Computer: PC compatible
 Operating System: Windows95
 Software: Word
 Current Application Data:
 Application Number: US/09/030,155
 Filing Date: 16-Jan-2001
 Classification: <Unknown>
 Attorney/Agent Information:
 Name: Davison, Barry L.
 Registration Number: 47,309
 Reference/Docket Number: 49321-10
 Telecommunication Information:
 Telephone: 206 628-7621
 Telefax: 206 628-7699
 Information for Seq ID No: 3:
 Sequence Characteristics:
 Length: 19
 Type: nucleic acid
 Strandedness: single
 Topology: unknown
 Molecule Type: oligonucleotide
 Sequence Description: SEQ ID NO: 3:
 US-09-630-155-3

Query Match 86.7%; Score 13; DB 4; Length 19;
 Best Local Similarity 100.0%; Pred. No. 2.1e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query 1 TCCATGGTGCCTA 13
 TCCATGGTGCCTA 13
 Db 6 TCCATGGTGCCTA 18

Result 7
 US-08-163-691-18
 Sequence 18, Application US/08463691
 Patent No. 616712
 General Information:
 Applicant: J. Gordon Foulkes et al.
 Patent No. 616712
 Title of Invention: Methods of transcriptionally
 Modulating Expression of Viral Genes and Genes Useful for t
 Title of Invention: Production of Proteins
 Number of Sequences: 20
 Correspondence Address:
 Addressee: John P. White, Esc.
 Street: 1185 Avenue of the Americas
 City: New York
 State: New York
 Country: USA
 Zip: 10016
 Computer Readable Form:
 Medium Type: Floppy disk
 Computer: IBM PC Compatible
 Operating System: PC-DOS/MS-DOS
 Software: PatentIn Release #1.0, Version #1.25
 Current Application Data:
 Application Number: US/08/463,691
 Filing Date: 5-JUN-1995
 Classification: 435
 Attorney/Agent Information:
 Name: White, John P.
 Registration Number: 28,678
 Telecommunication Information:
 Reference/Docket Number: 26,134-G12
 Telephone: 212-278-0400
 Telefax: 212-591-0525

TELEX:
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 26 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; US-08-463-691-18

Query Match 86.7%; Score 13; DB 4; Length 26;
 Best Local Similarity 100.0%; Pred. No. 2.1e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 SEQ ID NO 6

Qy 3 CATGGTGTCACT 15
 Db 1 CATGGTGTCACT 13

RESULT 8
 US-08-255-236-6

Sequence 6, Application US/08255236
 Patent No. 6203976

GENERAL INFORMATION:
 APPLICANT: FOULKES, J. Gordon
 TITLE OF INVENTION: METHODS OF TRANSCRIPTIONALLY MODULATING EXPRESSION OF PROTEINS
 TITLE OF INVENTION: VIRAL GENES AND GENES USEFUL FOR PRODUCTION OF PROTEINS
 FILE REFERENCE: 2613491

CURRENT APPLICATION NUMBER: US/08/255,236
 CURRENT FILING DATE: 1994-06-07
 NUMBER OF SEQ ID NOS: 18
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 6

LENGTH: 26
 TYPE: DNA
 ORGANISM: Homo sapiens

US-08-255-236-6

Query Match 86.7%; Score 13; DB 4; Length 26;
 Best Local Similarity 100.0%; Pred. No. 2.1e+02;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 SEQ ID NO 6

Qy 3 CATGGTGTCACT 15
 Db 1 CATGGTGTCACT 13

RESULT 9
 US-08-229-528-5/c

Sequence 5, Application US/08229528
 Patent No. 5837447

GENERAL INFORMATION:
 APPLICANT: GORSKI, Jack
 TITLE OF INVENTION: MONITORING AN IMMUNE RESPONSE BY ANALYSIS OF AMPLIFIED IMMUNO NUMBER OF SEQUENCES: 51
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Foley S. Larner
 STREET: P. O. Box 1497
 CITY: Madison
 STATE: Wisconsin
 COUNTRY: USA
 ZIP: 53701-1497

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: MS-DOS 3.3
 SOFTWARE: WordPerfect, Version 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/229,528
 FILING DATE: 18-APR-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07-868,569
 FILING DATE: 15-APR-1992

ATTORNEY/AGENT INFORMATION:
 NAME: Scanlon, William J.
 REGISTRATION NUMBER: 30-136
 REFERENCE/DOCKET NUMBER: 30383/133
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (608) 258-4284
 TELEFAX: (608) 258-4258
 INFORMATION FOR SEQ ID NO: 5;
 SEQUENCE CHARACTERISTICS:
 LENGTH: 22 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: Synthetic DNA oligonucleotide
 DESCRIPTION: Other nucleic acid;
 US-08-229-528-5

Query Match 82.7%; Score 12.4; DB 2;
 Best Local Similarity 92.9%; Pred. No. 4.3e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGGCTCAC 14
 Db 21 TCCAGGGCTCAC 8

RESULT 10
 US-09-338-907-248

Sequence 248, Application US/09338907
 Patent No. 6265546

GENERAL INFORMATION:
 APPLICANT: Cohen, Daniel
 APPLICANT: Blumenfeld, Marta
 APPLICANT: Illya, Chumakov
 APPLICANT: Bougnelerez, Lydie
 TITLE OF INVENTION: PROSTATE CANCER GENE
 FILE REFERENCE: GENSET 18CP1CP
 CURRENT APPLICATION NUMBER: US/09/338,907
 CURRENT FILING DATE: 1999-06-23
 EARLIER APPLICATION NUMBER: 08/996,306
 EARLIER FILING DATE: 1997-12-22
 EARLIER APPLICATION NUMBER: 60/099,658
 EARLIER FILING DATE: 1998-09-09
 EARLIER APPLICATION NUMBER: 09/218,207
 EARLIER FILING DATE: 1998-12-22
 NUMBER OF SEQ ID NOS: 578
 SEQ ID NO 248

LENGTH: 47
 TYPE: DNA
 ORGANISM: Homo Sapiens

FEATURE:
 NAME/KEY: allele
 LOCATION: 1..47
 OTHER INFORMATION: polymorphic fragment 99-148-366
 FEATURE:
 NAME/KEY: allele
 LOCATION: 1..23
 OTHER INFORMATION: potential microsequencing oligo 99-148-366.mis1
 FEATURE:
 NAME/KEY: primer_bind
 LOCATION: 25..47
 OTHER INFORMATION: complement potential microsequencing oligo 99-148-366.mis2

Query Match 82.7%; Score 12.4; DB 4;
 Best Local Similarity 92.9%; Pred. No. 4.4e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

US-09-338-907-248

Qy 1 TCCATGGTGCAC 14
 Db 18 TCCCTGGTGCAC 31

RESULT 11
 ; Sequence 248, Application US/09218207
 ; Patent No. 6346381

; GENERAL INFORMATION:
 ; APPLICANT: Cohen, Daniel
 ; APPLICANT: Blumenthal, Marita
 ; APPLICANT: Ilya, Chumakov
 ; APPLICANT: Bougueleret, Lydie
 ; TITLE OF INVENTION: Prostate cancer gene
 ; FILE REFERENCE: GENSET_018CP1
 ; CURRENT APPLICATION NUMBER: US/09/218-207
 ; CURRENT FILING DATE: 1998-12-22
 ; EARLIER APPLICATION NUMBER: 08/996,306
 ; EARLIER FILING DATE: 1997-12-22
 ; EARLIER APPLICATION NUMBER: 60/099,658
 ; EARLIER FILING DATE: 1998-09-09
 ; NUMBER OF SEQ ID NOS: 578
 ; SOFTWARE: Patent.pm
 ; SEQ ID NO: 248
 ; LENGTH: 47
 ; TYPE: DNA
 ; ORGANISM: Homo Sapiens
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 1..47
 ; OTHER INFORMATION: polymorphic fragment 99-148-366
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: 24
 ; OTHER INFORMATION: polymorphic base G
 ; FEATURE:
 ; NAME/KEY: primer_bind
 ; LOCATION: 1..23
 ; OTHER INFORMATION: potential microsequencing oligo 99-148-366.mis1
 ; FEATURE:
 ; NAME/KEY: primer_bind
 ; LOCATION: 25..7
 ; OTHER INFORMATION: complement potential microsequencing oligo 99-148-366.mis2
 ; US-09-218-207-248

Query Match 82.7% Score 12.4; DB 4; Length 47;
 Best Local Similarity 92.9%; Pred. No. 4.4e+02; Indels 0; Gaps 0;

Qy 1 TCCATGGTGCAC 14
 Db 18 TCCCTGGTGCAC 31

RESULT 12
 ; Sequence 44, Application US/09503730
 ; Patent No. 5780269

; GENERAL INFORMATION:
 ; APPLICANT: Sumiko
 ; APPLICANT: Inouye, Masayori
 ; TITLE OF INVENTION: NEW HYBRID MOLECULES
 ; NUMBER OF SEQUENCES: 45
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Weiser & Associates
 ; STREET: 230 South Fifteenth Street Suite 500
 ; CITY: Philadelphia
 ; STATE: PA
 ; COUNTRY: USA
 ; ZIP: 19102

COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent.In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/503,730
 ; FILING DATE: 18-JUL-1995
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/817,430
 ; FILING DATE: 06-JAN-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Weiser, Gerard J.
 ; REGISTRATION NUMBER: 19..763
 ; REFERENCE/DOCKET NUMBER: 377 (913) . 6277P
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 215-875-8383
 ; TELEFAX: 215-875-8394
 ; INFORMATION FOR SEQ ID NO: 44:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 27 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; US-08-503-730-44

Query Match 80.0% Score 12; DB 1; Length 27;
 Best Local Similarity 100.0%; Pred. No. 7.1e+02; Indels 0; Gaps 0;

Qy 2 CCATGGTGCAC 13
 Db 16 CCATGGTGCAC 5

RESULT 13
 ; Sequence 29, Application US/08503730
 ; Patent No. 5780269

; GENERAL INFORMATION:
 ; APPLICANT: Inouye, Sumiko
 ; APPLICANT: Inouye, Masayori
 ; TITLE OF INVENTION: NEW HYBRID MOLECULES
 ; NUMBER OF SEQUENCES: 45
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Weiser & Associates
 ; STREET: 230 South Fifteenth Street Suite 500
 ; CITY: Philadelphia
 ; STATE: PA
 ; COUNTRY: USA
 ; ZIP: 19102

COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: Patent.In Release #1.0, Version #1.25
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/503,730
 ; FILING DATE: 18-JUL-1995
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 07/817,430
 ; FILING DATE: 06-JAN-1992
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Weiser, Gerard J.
 ; REGISTRATION NUMBER: 19..763
 ; REFERENCE/DOCKET NUMBER: 377 (913) . 6277P
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 215-875-8383
 ; TELEFAX: 215-875-8394
 ; INFORMATION FOR SEQ ID NO: 29:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 53 base pairs
 ; TYPE: nucleic acid

STRANDEDNESS: single
 TOPOLOGY: both
 US-08-503-730-29

Query Match 80.0%; Score 12; DB 1; Length 53;
 Best Local Similarity 100.0%; Pred. No. 7.3e+00;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CCATGGTGCCTCA 13
 Db 13 CCATGGTGCCTCA 2

RESULT 14
 US-08-503-730-30/c
 Sequence 30, Application US/08503730

GENERAL INFORMATION:
 Patent No. 5780269

APPLICANT: Inouye, Sumiko
 TITLE OF INVENTION: NEW HYBRID MOLECULES

NUMBER OF SEQUENCES: 45

CORRESPONDENCE ADDRESS:
 ADDRESSSEE: Weiser & Associates
 STREET: 230 South Fifteenth Street Suite 500
 CITY: Philadelphia
 STATE: PA
 COUNTRY: USA
 ZIP: 19102

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS

CURRENT APPLICATION DATA:
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 APPLICATION NUMBER: US/08/832,468

PRIOR APPLICATION DATA:
 FILING DATE:
 CLASSIFICATION: 435
 PRIORITY NUMBER: US 60-014929
 APPLICATION NUMBER: US 60-014929
 FILING DATE: 05-APR-1996
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Jay, Jeremy M.
 REGISTRATION NUMBER: 33597
 REFERENCE/DOCKET NUMBER: 72466
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 202-737-6770
 TELEFAX: 202-737-6776
 INFORMATION FOR SEQ ID NO: 6:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 50 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: other nucleic acid (synthetic DNA)

US-08-832-468-6

Query Match 78.7%; Score 11.8; DB 2; Length 50;
 Best Local Similarity 86.7%; Pred. No. 9.3e+02;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCCATGGTGCCTACT 15
 Db 19 TCCATAGTGCCTCCCT 33

Search completed: November 21, 2002, 06:53:17
 Job time : 69 secs

RESULT 15
 US-08-503-468-6
 Sequence 6, Application US/08832468
 Patent No. 5962237

GENERAL INFORMATION:
 APPLICANT: Ts'o, Paul O.P.
 ATTORNEY: Wang, Zheng-Pin
 APPLICANT: Lesko, Stephen A.

Query Match 80.0%; Score 12; DB 1; Length 62;
 Best Local Similarity 100.0%; Pred. No. 7.3e+02;
 Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 CCATGGTGCCTCA 13
 Db 13 CCATGGTGCCTCA 2

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OM nucleic - nucleic search, using sw model

Run on: November 21, 2002, 06:15:59 ; Search time 83 Seconds
(without alignments)

68.445 Million cells updated/sec

Title: US-09-716-320-3

Perfect score: 15

Sequence: 1 tccatgggtctct 15

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 335578 seqs, 189365133 residues

Total number of hits satisfying chosen parameters: 195614

Minimum DB seq length: 0

Maximum DB seq length: 100

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_NA:*

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6: /cgn2_6/ptodata/2/pubpna/pctus_pubcomb.seq:*

7: /cgn2_6/ptodata/2/pubpna/us08_new_pub.seq:*

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11: /cgn2_6/ptodata/2/pubpna/us10_new_pub.seq:*

12: /cgn2_6/ptodata/2/pubpna/us10_pubcomb.seq:*

13: /cgn2_6/ptodata/2/pubpna/us60_new_pub.seq:*

14: /cgn2_6/ptodata/2/pubpna/us60_pubcomb.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
1	12.4	82.7	47	9 US-09-853-526-248
2	12.4	82.7	47	10 US-09-001-084A-248
C 3	11.8	78.7	64	10 US-09-158-120A-41
C 4	11.8	78.7	71	10 US-09-793-590-4159
C 5	11.4	76.0	17	10 US-09-066-108-1434
C 6	11.4	76.0	17	10 US-09-066-108-1435
C 7	11.4	76.0	17	10 US-09-066-108-1436
C 8	11.4	76.0	17	10 US-09-066-108-1437
C 9	11.4	76.0	17	10 US-09-066-108-1438
C 10	11.4	76.0	17	10 US-09-066-108-6654
C 11	11.4	76.0	17	10 US-09-066-108-6655
C 12	11.4	76.0	17	10 US-09-066-108-6656
C 13	11.4	76.0	17	10 US-09-066-108-6657
C 14	11.4	76.0	17	10 US-09-066-108-6658
C 15	11.4	76.0	17	10 US-09-066-108-8318
C 16	11.4	76.0	17	10 US-09-066-108-8319
C 17	11.4	76.0	17	10 US-09-066-108-8320
C 18	11.4	76.0	17	10 US-09-066-108-8321
C 19	11.4	76.0	17	10 US-09-066-108-8322

ALIGNMENTS

RESULT 1
US-09-853-526-248
; Sequence 248, Application US/09853526
; Patent No. US20020165345A1
; GENERAL INFORMATION:
; APPLICANT: Cohen, Daniel
; APPLICANT: Blumenfeld, Marta
; APPLICANT: Illya, Chumakov
; APPLICANT: Bougueret, Lydie
; TITLE OF INVENTION: PROSTATE CANCER GENE
; FILE REFERENCE: GENSET 18CP1CP
; CURRENT APPLICATION NUMBER: US/09/853,526
; CURRENT FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: 09/338, 907
; PRIOR FILING DATE: 1999-06-23
; PRIOR APPLICATION NUMBER: 08/996, 306
; PRIOR FILING DATE: 1997-12-22
; PRIOR APPLICATION NUMBER: 60/099, 658
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 09/218, 207
; PRIOR FILING DATE: 1998-12-22
; NUMBER OF SEQ ID NOS: 578
; SEQ ID NO: 248
; LENGTH: 47
; SOFTWARE: Patent.pm
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: allele
; LOCATION: 1..47
; OTHER INFORMATION: polymorphic fragment 99-148-366
; NAME/KEY: allele
; LOCATION: 24
; OTHER INFORMATION: polymorphic base G
; NAME/KEY: primer_bind
; LOCATION: 1..23
; OTHER INFORMATION: Potential microsequencing oligo 99-148-366.mis1
; NAME/KEY: primer_bind
; LOCATION: 25..47
; OTHER INFORMATION: complement potential microsequencing oligo 99-148-366.mis2
US-09-853-526-248

Query Match 82.7%; Score 12.4; DB 9; Length 47;
 Best Local Similarity 92.9%; Pred. No. 5.1e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGTGTCTCAC 14
 Db 18 TCCCTGGTGTCTCAC 31

RESULT 2
 US-09-901-484A-248
 ; Sequence 248, Application US/09901484A
 ; GENERAL INFORMATION:
 ; APPLICANT: Cohen, Daniel
 ; APPLICANT: Blumenfeld, Marta
 ; APPLICANT: Chumakov, Ilya
 ; APPLICANT: Bougueret, Lydie
 ; TITLE OF INVENTION: Prostate Cancer Gene
 ; FILE REFERENCE: GEN-T1111XC3D2
 ; CURRENT APPLICATION NUMBER: US/09/901,484A
 ; CURRENT FILING DATE: 2001-07-09
 ; PRIOR APPLICATION NUMBER: US 08/996,306
 ; PRIOR FILING DATE: 1997-12-22
 ; PRIOR APPLICATION NUMBER: US 60/099,658
 ; PRIOR FILING DATE: 1998-09-09
 ; PRIOR APPLICATION NUMBER: US 09/218,207
 ; PRIOR FILING DATE: 1998-12-22
 ; PRIOR APPLICATION NUMBER: US 09/338,907
 ; PRIOR FILING DATE: 1999-06-23
 ; PRIOR APPLICATION NUMBER: US 09/853,526
 ; PRIOR FILING DATE: 2001-05-11
 ; NUMBER OF SEQ ID NOS: 578
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO: 248
 ; LENGTH: 47
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: allele
 ; LOCATION: (1)..(47)
 ; OTHER INFORMATION: polymorphic fragment 99-148-366
 ; NAME/KEY: allele
 ; LOCATION: (24)..(24)
 ; OTHER INFORMATION: polymorphic base G
 ; NAME/KEY: primer_bind
 ; LOCATION: (1)..(23)
 ; OTHER INFORMATION: potential microsequencing oligo 99-148-366.mis2
 ; NAME/KEY: primer_bind
 ; LOCATION: (25)..(47)
 ; OTHER INFORMATION: complement potential microsequencing oligo 99-148-366.mis2
 US-09-901-484A-248

Query Match 82.7%; Score 12.4; DB 10; Length 47;
 Best Local Similarity 92.9%; Pred. No. 5.1e+02;
 Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGGTGTCTCAC 14
 Db 18 TCCCTGGTGTCTCAC 31

RESULT 3
 US-09-158-120A-41/1
 ; Sequence 41, Application US/09158120A
 ; GENERAL INFORMATION:
 ; APPLICANT: JOHNSON, L.
 ; TITLE OF INVENTION: Human Murine Chimeric Antibodies Against
 ; NUMBER OF SEQUENCES: 49
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN, CECCHI,
 ; ADDRESS: 1000 University Street, Seattle, WA 98101-3143
 ; COUNTRY: USA
 ; ZIP: 98101
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: 3.5 INCH DISKETTE
 ; COMPUTER: P160
 ; OPERATING SYSTEM: Windows95
 ; SOFTWARE: MS Word 97

RESULT 4
 US-09-716-320A-41
 ; Query Match 78.7%; Score 11.8; DB 10; Length 64;
 ; Best Local Similarity 86.7%; Pred. No. 1.1e+03;
 ; Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 TCCATGGTGTCTACT 15
 Db 24 TCCATGGTGTCTACT 10

RESULT 4
 US-09-713-590-4259
 ; Sequence 4259, Application US/09783590
 ; GENERAL INFORMATION:
 ; APPLICANT: Dillon, Patrick J.
 ; APPLICANT: Haeltine, William A.
 ; APPLICANT: Li, Haodong
 ; APPLICANT: Rosen, Craig A.
 ; APPLICANT: Ruben, Steven M.
 ; TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 16.2
 ; FILE REFERENCE: PO-16 2CL
 ; CURRENT APPLICATION NUMBER: US/09/783,590
 ; CURRENT FILING DATE: 2000-02-15
 ; PRIOR APPLICATION NUMBER: 08/420,856
 ; PRIOR FILING DATE: 1995-04-12
 ; PRIOR APPLICATION NUMBER: 08/346,731
 ; PRIOR FILING DATE: 1994-11-21
 ; NUMBER OF SEQ ID NOS: 12485
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 4259
 ; LENGTH: 71
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: miss feature
 ; LOCATION: (6)
 ; OTHER INFORMATION: n equals a,t,g, or c

```

; NAME/KEY: misc feature
; LOCATION: (31)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (44)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (58)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (65)
; OTHER INFORMATION: n equals a,t,g, or c
; US-09-783-590-4259

Query Match 78.7%; Score 11.8; DB 10; Length 71;
Best Local Similarity 86.8%; Pred. No. 1.1e+02; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 2;

Qy 1 TCCATGGTGCCTACT 15
Db 16 TCCATGGTGCCTACT 30

RESULT 5
; Sequence 1434, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: HANZEL, David R.
; APPLICANT: RANK, David R.
; APPLICANT: SHANNON, Mark
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AECOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00658
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO: 1435
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-866-108-1435

Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Indels 0; Gaps 0;
Matches 12; Conservative 0; Mismatches 1;

Qy 2 CCATGGTGCCTAC 14
Db 17 CCATGGTGCCTAC 5

```

Db 16 CCATTGGTCAC 4

RESULT 7

US-09-866-108-1436/c

; Sequence No. 1436, Application US/09866108

; GENERAL INFORMATION:

; APPLICANT: GU, Yizhong

; APPLICANT: PENN, Sharron G.

; APPLICANT: HANZEL, David K.

; APPLICANT: RANK, David R.

; APPLICANT: CHEN, Wensheng

; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE

; FILE REFERENCE: AEONICA-7

; CURRENT FILING DATE: 2001-05-25

; CURRENT APPLICATION NUMBER: US 60/207,456

; PRIOR APPLICATION NUMBER: US 60/05-26

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: GB 24263, 6

; PRIOR FILING DATE: 2000-05-04

; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: PCT/US01/00666

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: GB 24263, 6

; PRIOR FILING DATE: 2000-05-25

; PRIOR APPLICATION NUMBER: US 60/207,456

; PRIOR FILING DATE: 2000-05-26

; PRIOR APPLICATION NUMBER: PCT/US01/00666

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00666

; PRIOR FILING DATE: 2000-05-27

; PRIOR APPLICATION NUMBER: PCT/US01/00666

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00667

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00664

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00666

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00666

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00663

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00669

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00667

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00668

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00662

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00661

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: PCT/US01/00670

; PRIOR FILING DATE: 2001-01-30

; PRIOR APPLICATION NUMBER: US 60/234,687

; PRIOR FILING DATE: 2000-09-21

; PRIOR APPLICATION NUMBER: US 60/266,860

; PRIOR FILING DATE: 2001-02-05

; NUMBER OF SEQ ID NOS: 15/52

; SOFTWARE: Aeomica Sequence Listing Engine

; SEQ ID NO: 1437

; LENGTH: 17

; TYPE: DNA

; ORGANISM: Homo sapiens

; US-09-866-108-1437

; RESULT 9

US-09-866-108-1438/c

; Sequence 1438, Application US/09866108

; Patent No. US20020048800A1

; GENERAL INFORMATION:

; APPLICANT: GU, Yizhong

; APPLICANT: CHEN, Wensheng

; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE

; FILE REFERENCE: AEONICA-8

; CURRENT APPLICATION NUMBER: US/09/866,108

; CURRENT FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: US 60/207,456

; RESULT 8

US-09-866-108-1437/c

; Sequence 1437, Application US/09866108

; Patent No. US20020048800A1

; GENERAL INFORMATION:

; APPLICANT: GU, Yizhong

; APPLICANT: CHEN, Wensheng

; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE

; FILE REFERENCE: AEONICA-8

; CURRENT APPLICATION NUMBER: US/09/866,108

; CURRENT FILING DATE: 2001-05-25

; PRIOR APPLICATION NUMBER: US 60/207,456


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; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006651
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; NUMBER OF SEQ ID NOS: 15752
; PRIOR FILING DATE: 2001-02-05
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO: 6655
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-6655

RESULT 12
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 13
US-09-866-108-6657
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 3 CATTGGGCTCACT 15

RESULT 14
US-09-866-108-6658
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 15
US-09-866-108-6659
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 16
US-09-866-108-6660
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 17
US-09-866-108-6661
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 18
US-09-866-108-6662
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 19
US-09-866-108-6663
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 20
US-09-866-108-6664
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 21
US-09-866-108-6665
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 22
US-09-866-108-6666
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 23
US-09-866-108-6667
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 24
US-09-866-108-6668
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 25
US-09-866-108-6669
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 26
US-09-866-108-6670
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 27
US-09-866-108-6671
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

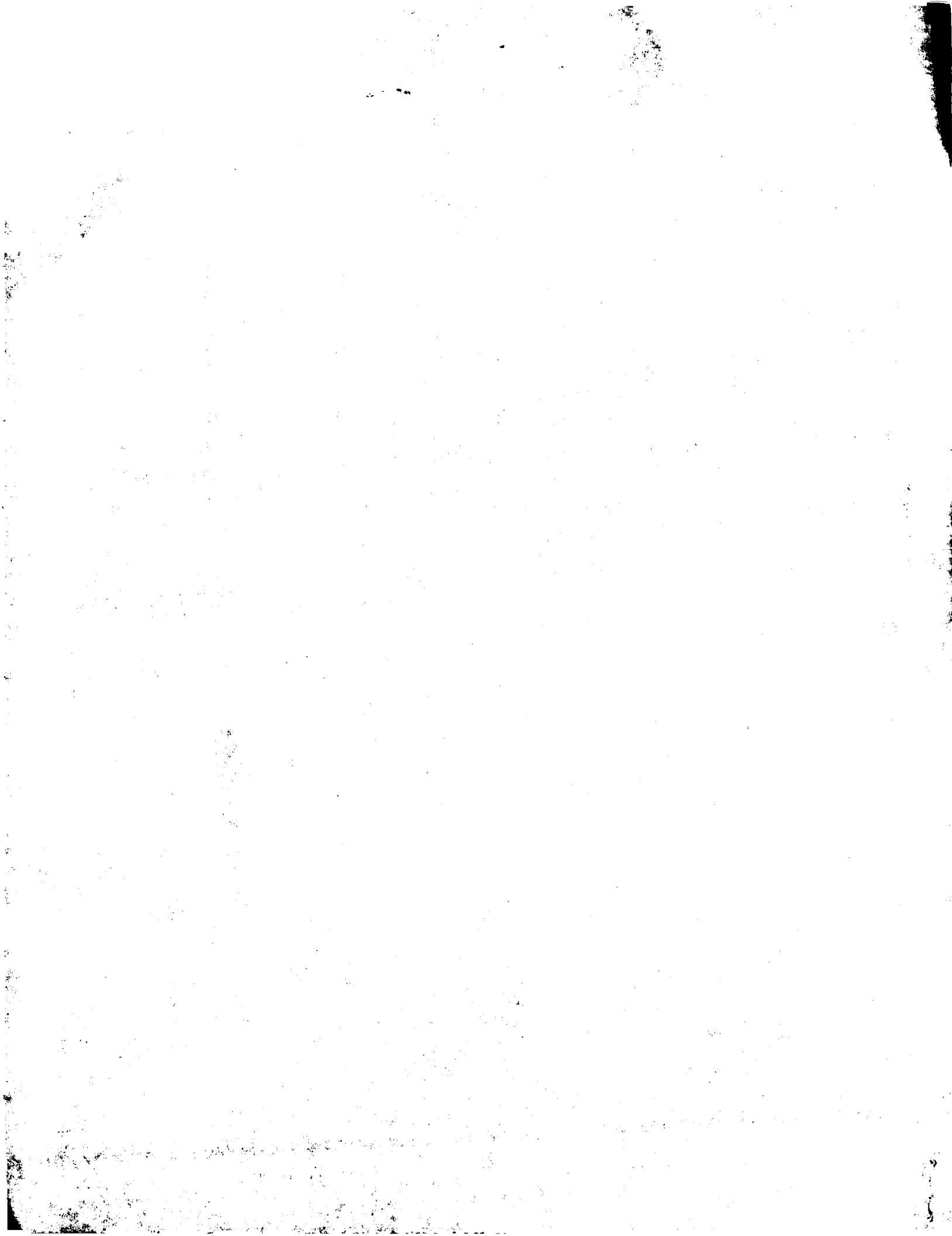
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US-09-866-108-6672
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 29
US-09-866-108-6673
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 30
US-09-866-108-6674
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

RESULT 31
US-09-866-108-6675
Query Match 76.0%; Score 11.4; DB 10; Length 17;
Best Local Similarity 92.3%; Pred. No. 1.7e+03; Mismatches 0; Gaps 0;
Matches 12; Conservative 0; Indels 0; Gaps 0;
Qy 3 CATTGGCTCACT 15
Db 4 CATTGGGCTCACT 16

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GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: November 21, 2002, 03:45:54 ; Search time 3161 Seconds
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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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41: em_htgo_other:/*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	15	100.0	19	6	AX103821		Sequence AX355038
2	15	100.0	19	6	AX103821		Sequence I34918 Sequence 4
C	3	15	100.0	24	6	AX071406	Sequence AR071406
4	14	93.3	15	6	AX159179	Sequence AX159179	
5	14	93.3	15	6	AX159179	Sequence A45228 Sequence 10	
6	13	86.7	14	6	AX159179	Sequence A88989 Sequence 11	
7	13	86.7	14	6	AX159179	Sequence AR202871 Sequence 12	
8	13	86.7	14	6	AX159179	Sequence A88177 Sequence 32	
9	13	86.7	16	6	AX159179	Sequence A90144 Sequence 32	
10	13	86.7	16	6	AX159179	Sequence AR137074 Sequence 32	
11	13	86.7	20	6	AX159179	Sequence AX164704 Sequence 32	
C	12	13	86.7	20	6	AX164704	Sequence AR122156 Sequence
13	13	86.7	26	6	AX164704	Sequence AR142598 Sequence	
14	13	86.7	26	6	AX164704	Sequence AR054584 Sequence	
C	15	12.4	82.7	22	6	AX164704	Sequence AX428032 Sequence
C	16	12.4	82.7	24	6	AX164704	Sequence AX161043 Sequence
C	17	12.4	82.7	50	6	AX164704	Sequence AX159180 Sequence
C	18	12.4	82.7	51	6	AX164704	Sequence AX161039 Sequence
C	19	12.4	82.7	51	6	AX164704	Sequence AX161040 Sequence
C	20	12.4	82.7	51	6	AX164704	Sequence AX161041 Sequence
C	21	12.4	82.7	51	6	AX164704	Sequence AX385593 Sequence
C	22	12.4	82.7	98	6	AX164704	Sequence E15265 Primer 7/1
C	23	12	80.0	27	6	AX164704	Sequence AR017897 Sequence
C	24	12	80.0	27	6	AX164704	Sequence AR017892 Sequence
C	25	12	80.0	53	6	AX164704	Sequence AR017882 Sequence
C	26	12	80.0	62	6	AX164704	Sequence AR017883 Sequence
C	27	12	80.0	97	6	AX164704	Sequence E15263 Chlamydomon
C	28	11.8	78.7	19	6	AX164704	Sequence AX375647 Sequence
C	29	11.8	78.7	50	6	AX164704	Sequence AR077265 Sequence
C	30	11.8	78.7	50	6	AX164704	Sequence AX199506 Sequence
C	31	11.8	78.7	51	6	AX164704	Sequence AX199505 Sequence
C	32	11.8	78.7	54	6	AX164704	Sequence AR188935 Sequence
C	33	11.8	78.7	64	6	AX164704	Sequence AR048884 Sequence
C	34	11.8	78.7	72	9	AX164704	Sequence AF159055 Homo sapi
C	35	11.8	78.7	76	6	AX164704	Sequence AX389447 Sequence
C	36	11.8	78.7	93	9	AX164704	Sequence AF172205 Nycticebu
C	37	11.8	78.7	93	9	AX164704	Sequence AF172208 Eulemur m
C	38	11.8	78.7	93	9	AX164704	Sequence AF172209 Periodot
C	39	11.8	78.7	96	3	AX164704	Sequence CIEF11937 Caenorhab
C	40	11.8	78.7	100	6	AX164704	Sequence AR048314 Sequence
C	41	11.8	78.7	100	6	AX164704	Sequence AR097085 Sequence
C	42	11.8	78.7	100	6	AX164704	Sequence AR130583 Sequence
C	43	11.8	78.7	100	6	AX164704	Sequence AR171932 Sequence
C	44	11.4	76.0	15	6	AX164704	Sequence AR180130 Sequence
C	45	11.4	76.0	20	6	AX164704	Sequence AR136387 Sequence

ALIGNMENTS

RESULT 1
AX103821
LOCUS Sequence 13 from Patent WO0122972
DEFINITION AX103821
ACCESSION AX103821.1 GI:13920018
VERSION 1
KEYWORDS
SOURCE synthetic construct.
ORGANISM artificial sequences.
REFERENCE 1 (bases 1 to 19)
AUTHORS Krieg, A.M., Schetter, C. and Vortmeier, J.C.
TITLE Immunostimulatory nucleic acids
PATENT NO. 0122972 A 18.05.2001
JOURNAL UNIVERSITY OF IOWA RESEARCH FOUNDATION (US) ; Coley Pharmaceutical

PAT 30-APR-2001

DNA

Linear

Pred No. is the number of results predicted by chance to have a

FEATURES GmbH (DE) Location/Qualifiers
 source 1. .19
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 /db_xref="taxon:32630"
 BASE COUNT 3 a 6 c 5 g 5 t

Query Match 100.0%; Score 15; DB 6; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 ORIGIN

RESULT 4
 AR071406 AR071406 AR071406 AR071406
 LOCUS 1 TCCATGGTGCCTCACT 15 1 TCCATGGTGCCTCACT 15
 DEFINITION Sequence 1 from patent US 5910583. DNA
 ACCESSION AR071406 AR071406
 VERSION AR071406.1 GI:7222294
 KEYWORDS Unknown.
 SOURCE ORGANISM Unknown.
 UNCLASSIFIED
 REFERENCE 1 (bases 1 to 15)
 AUTHORS Marks, J.R., Vaughn, J.P. and Inglehart, J.D.
 TITLE Antisense Oligonucleotides against ERBB2
 JOURNAL Patent: US 5910583-A (08-JUN-1999;
 FEATURES Location/Qualifiers
 source 1. .15
 BASE COUNT 2 a 6 c 3 g 4 t

Query Match 93.3%; Score 14; DB 6; Length 15;
 Best Local Similarity 100.0%; Pred. No. 7.1e+02;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 ORIGIN

Query Match 93.3%; Score 14; DB 6; Length 15;
 Best Local Similarity 100.0%; Pred. No. 7.1e+02;
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 ORIGIN

RESULT 2
 AX355038 AX355038 AX355038 AX355038
 LOCUS 19 bp from Patent WO0197843. DNA
 DEFINITION Sequence 66 from Patent WO0197843.
 ACCESSION AX355038
 VERSION AX355038.1 GI:18619705
 KEYWORDS synthetic construct.
 ORGANISM synthetic construct.
 artificial sequences.
 artificial sequences.
 REFERENCE 1
 AUTHORS Weiner, G. and Hartmann, G.
 TITLE Methods for enhancing antibody induced cell lysis and treating
 cancer
 JOURNAL Patent: WO 0197843-A 66 27-DEC-2001;
 UNIVERSITY OF IOWA RESEARCH FOUNDATION (US)
 FEATURES source
 1. .19
 /organism="synthetic construct"
 /db_xref="taxon:32630"
 /note="Synthetic Oligonucleotide-phosphorothioate
 backbone"
 BASE COUNT 3 a 6 c 5 g 5 t

Query Match 100.0%; Score 15; DB 6; Length 19;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 ORIGIN

RESULT 5
 AX159179 AX159179 AX159179 AX159179
 LOCUS 51 bp DNA
 DEFINITION Sequence 2507 from Patent WO0140521.
 ACCESSION AX159179
 VERSION AX159179.1 GI:14540510
 KEYWORDS human
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 51)
 AUTHORS Shimkets, R.A. and Leach, M.
 TITLE Nucleic acids containing single nucleotide polymorphisms and
 methods of use thereof
 JOURNAL Patent: WO 0140521-A 2507 07-JUN-2001;
 FEATURES source
 CURAGEN CORPORATION (US)
 Location/Qualifiers
 1. .51
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 /note="1 of 2 allelic variants (2508 is other entry)
 /db_xref="taxon:9606"
 BASE COUNT 7 a 14 c 15 g 15 t

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 Best Local Similarity 100.0%; Pred. No. 7.4e+02;
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 ORIGIN

RESULT 3
 I34918/c I34918 I34918 I34918
 LOCUS 24 bp DNA
 DEFINITION Sequence 4 from patent US 5599704.
 ACCESSION 134918
 VERSION I34918.1 GI:2087886
 KEYWORDS Unknown.
 ORGANISM Unknown.
 unclassified.
 1 (bases 1 to 24)
 REFERENCE Thompson, J.D. and Draper, K.G.
 AUTHORS ErbB2/neu targeted ribozymes 6;
 JOURNAL Patent: US 5599704-A 04-FEB-1997;
 FEATURES Location/Qualifiers
 source 1. .24
 BASE COUNT 6 a 7 c 8 g 3 t

Query Match 100.0%; Score 15; DB 6; Length 24;
 Best Local Similarity 100.0%; Pred. No. 1.6e+02;
 ORIGIN

RESULT 6
 17 CCATGGTGCCTCACT 30

RESULT 8
 LOCUS AR202871
 DEFINITION AR202871
 ACCESSION AR202871
 VERSION 1
 KEYWORDS
 SOURCE Unknown
 ORGANISM Unknown

REFERENCE Authors Brysch, W. and Schlingensiepen, K.-H., Schlingensiepen, R. and Schlingensiepen, G. F.
 TITLE Antisense nucleic acids for the prevention and treatment of disorders in which expression of c-erbB plays a role
 JOURNAL Patent: US 6365345 A 105 02 APR-2002;
 FEATURES Location/Qualifiers 1..14
 SOURCE /organism="unknown"
 BASE COUNT 2 a 4 c 4 g 4 t

RESULT 9
 LOCUS A88177
 DEFINITION Sequence 325 from Patent WO9833904 .
 ACCESSION A88177
 VERSION A88177.1 GI:6736747
 KEYWORDS
 SOURCE unidentified
 ORGANISM unidentified
 FEATURES 1..16 (bases 1 to 16)
 REFERENCE Authors Brysch, W. and Schlingensiepen, K.-H., Schlingensiepen, R. and Schlingensiepen, G. F.
 TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
 JOURNAL Patent: WO 9833904 A 325 06 AUG-1998;
 FEATURES BIOGNOSTIK GES (DE); BRYSCHE WOLFGANG (DE)
 SOURCE Location/Qualifiers 1..16 (bases 1 to 16)
 /organism="unidentified"
 /db_xref="taxon:32644"
 BASE COUNT 2 a 5 c 5 g 4 t

RESULT 10
 LOCUS A90144
 DEFINITION Sequence 325 from Patent EP0855579 .
 ACCESSION A90144
 VERSION A90144.1 GI:6738658
 KEYWORDS
 SOURCE unidentified
 ORGANISM unidentified
 FEATURES 1..16 (bases 1 to 16)
 REFERENCE Authors Brysch, W.D. and Schlingensiepen, K.D.
 TITLE An antisense oligonucleotide preparation method
 JOURNAL Patent: EP 0855579 A 325 05 AUG-1998;
 FEATURES BIOGNOSTIK GES (DE)
 SOURCE Location/Qualifiers 1..16 (bases 1 to 16)
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 BASE COUNT 2 a 5 c 5 g 4 t

RESULT 7
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 DEFINITION Sequence 1137 from Patent WO9833904 .
 ACCESSION A88989
 VERSION A88989.1 GI:6737559
 KEYWORDS
 SOURCE unidentified
 ORGANISM unidentified
 FEATURES 1..14 (bases 1 to 14)
 REFERENCE Authors Brysch, W. and Schlingensiepen, K.-H., Schlingensiepen, R. and Schlingensiepen, G. F.
 TITLE AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD
 JOURNAL Patent: WO 9833904 A 1137 06 AUG-1998;
 FEATURES BIOGNOSTIK GES (DE); BRYSCHE WOLFGANG (DE)
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RESULT 11
 LOCUS AR202871
 DEFINITION AR202871
 ACCESSION AR202871
 VERSION 1
 KEYWORDS
 SOURCE Unknown
 ORGANISM Unknown

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 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 86.7%; Score 13; DB 6; Length 14;
 Best Local Similarity 100.0%; Pred. No. 3..3e+03;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 86.7%; Score 13; DB 6; Length 14;
 Best Local Similarity 100.0%; Pred. No. 3..3e+03;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Query Match 86.7%; Score 13; DB 6; Length 14;
 Best Local Similarity 100.0%; Pred. No. 3..3e+03;
 Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

ORIGIN	RESULT 13	RESULT 14	RESULT 15	RESULT 16
Query Match 86.7%; Score 13; DB 6; Length 16; Best Local Similarity 100.0%; Pred. No. 3.3e+03; Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Query Match 86.7%; Score 13; DB 6; Length 16; Best Local Similarity 100.0%; Pred. No. 3.3e+03; Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Query Match 86.7%; Score 13; DB 6; Length 16; Best Local Similarity 100.0%; Pred. No. 3.3e+03; Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Query Match 86.7%; Score 13; DB 6; Length 16; Best Local Similarity 100.0%; Pred. No. 3.3e+03; Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Query Match 86.7%; Score 13; DB 6; Length 16; Best Local Similarity 100.0%; Pred. No. 3.3e+03; Matches 13; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3 CATGGGTGCTCACT 15 Db 1 CATGGGTGCTCACT 13				
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REFERENCE 1 bases 1 to 20 AUTHORS Haasen G. TITLE Plant transformation methods JOURNAL Patent: US 612965 A 3 19-DEC-2000; FEATURES Location/Qualifiers 1..20 source	REFERENCE 1 bases 1 to 20 AUTHORS Haasen G. TITLE Plant transformation methods JOURNAL Patent: US 612965 A 3 19-DEC-2000; FEATURES Location/Qualifiers 1..20 source	REFERENCE 1 bases 1 to 20 AUTHORS Haasen G. TITLE Plant transformation methods JOURNAL Patent: US 612965 A 3 19-DEC-2000; FEATURES Location/Qualifiers 1..20 source	REFERENCE 1 bases 1 to 20 AUTHORS Haasen G. TITLE Plant transformation methods JOURNAL Patent: US 612965 A 3 19-DEC-2000; FEATURES Location/Qualifiers 1..20 source	REFERENCE 1 bases 1 to 20 AUTHORS Haasen G. TITLE Plant transformation methods JOURNAL Patent: US 612965 A 3 19-DEC-2000; FEATURES Location/Qualifiers 1..20 source
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TITLE Monitoring an immune response by analysis of amplified immunoglobulin or T-cell receptor nucleic acid
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